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NEWS 18 FEB 22 Updates in EPFULL; IPC 8 enhancements added
NEWS 19 FEB 27 New STN AnaVist pricing effective March 1, 2006
NEWS 20 FEB 28 MEDLINE/LMEDLINE reload improves functionality
NEWS 21 FEB 28 TOXCENTER reloaded with enhancements
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                 property data
NEWS 23
         MAR 01
                 INSPEC reloaded and enhanced
                 Updates in PATDPA; addition of IPC 8 data without attributes
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NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
              CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
              V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT
              http://download.cas.org/express/v8.0-Discover/
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03/12/2006 Page 1

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This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s melanocortin?
          2419 MELANOCORTIN?
=> s receptor
        640732 RECEPTOR
        587626 RECEPTORS
        762593 RECEPTOR
1.2
                 (RECEPTOR OR RECEPTORS)
\Rightarrow s 11 and 12
          2149 L1 AND L2
=> s mc-4 and receptor
         33623 MC
          2058 MCS
         35103 MC
                 (MC OR MCS)
       5281421 4
           133 MC-4
                  (MC(W)4)
        640732 RECEPTOR
        587626 RECEPTORS
        762593 RECEPTOR
                 (RECEPTOR OR RECEPTORS)
            40 MC-4 AND RECEPTOR
T.4
=> s 13 or 14
          2156 L3 OR L4
=> d obesity
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SAM ----- CC, SX, TI, ST, IT
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;
             SCAN must be entered on the same line as the DISPLAY,
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OIBIB ----- OBIB, indented with text labels
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HIT ----- Fields containing hit terms
HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)
             containing hit terms
HITRN ----- HIT RN and its text modification
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             its structure diagram
HITSEQ ----- HIT RN, its text modification, its CA index name, its
             structure diagram, plus NTE and SEQ fields
FHITSTR ---- First HIT RN, its text modification, its CA index name, and
             its structure diagram
FHITSEQ ---- First HIT RN, its text modification, its CA index name, its
             structure diagram, plus NTE and SEQ fields
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=> s obesity

35354 OBESITY

72 OBESITIES

L6 35357 OBESITY

(OBESITY OR OBESITIES)

=> s diabetes

L7 108621 DIABETES

=> s (16 or 16) and 15

L8 632 (L6 OR L6) AND L5

=> d ibib abs 1-20

RE ANSWER 1 OF 632
CCESSION NUMBER:

2006:207048 HCAPLUS
Discovery of Orally Efficacious Melanin-Concentrating
Hormone Receptor-1 Antagonists as
Antiobesity Agents. Synthesis, SAR, and Biological
Evaluation of Bicyclo[31.10] hexyl Ureas
McBriar, Mark D.: Guzik, Henry: Shapiro, Sherry:
Paruchova, Jaroslava: Xu, Ruo: Palani, Anandan:
Clader, John W.: Cox, Kathleen: Greenlee, William J.:
HAWES, Brian E.: Kowalski, Timothy J.: O'Neill, Kim;
Spar, Brian D.: Weig, Blair; Weston, Daniel J.:
Farley, Constance: Cook, John
Department of Chemical Research and Department of
Cardiovascular and Metabolic Diseases, AUTHOR (S) .

CORPORATE SOURCE: Schering-Plough

Schering-Plough

Research Institute, Kenilworth, NJ, 07033-0539, USA

SOURCE: Journal of Medicinal Chemistry ACS ASAP

CODEN: JMCMAR: ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Melanin-concentrating hormone (MCH) is a cyclic, nonadecapeptide

expressed in the

CNS of all vertebrates that regulates feeding behavior and energy

homeostasis via interaction with the central mmlanocortin

system. Regulation of this interaction results in modulation of food

intake and body weight gain, demonstrating significant therapeutic

potential

for the treatment of obmesity. The MCH-I recomptor

(MCH-R1) has been identified as a key target in MCH regulation, as small

mol. antagonists of MCH-R1 have demonstrated activity in vivo. Herein,

we

document our research in a bicyclo[3.1.0] hexyl urea series with

cular emphasis on structure-activity relationships and optimization of receptor occupancy, measured both in vitro and via an ex vivo binding assay following an oral dosing regimen. Several compds. have

tested in vivo and exhibit oral efficacy in relevant acute rodent feeding models. In particular, 24u has proven efficacious in chronic rodent models of obesity, showing a statistically significant reduction in food intake and body weight over a 28 day study.

L8 ANSWER 2 OF 632 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2006:198614 HCAPLUS
TITLE: Cloning and functional analysis of
melanocortin 4 receptor mutation

melanocortin q receptor mutation gene F261S Shao, Xinyu; Jia, Weiping; Cai, Shubing; Fang, AUTHOR(S): Qichen;

AUTHOR(8): Shao, Xinyu; Jia, Weiping; Cai, Shubing; Fang, Qichen;

CORPORATE SOURCE: Affiliated Sixth Hospital, Shanghai Jiaotong University, Shanghai, 200233, Peop. Rep. China Zhonghua Yixue Zazhi (Beijing, China) (2005), 85(6), 366-369

CODEN: CHETATT, ISSN: 0376-2491

PUBLISHER: Zhonghua Yixuehui Zazhishe
DOCUMENT TYPE: Journal Outral

LANGUAGE: China of the melanocortin 4 receptor

(MC4R) protein with mutation of P2615 was evaluated. Human embryonic cells of HEX293 were cultured. Wild-type genomic DNA and P2615 mutation human malanocortin 4 receptor genes from the genomic

DNA of aproband of homozygotic F612 mutation were amplified and cloned into a topo-TA eukarystic expression plasmid vector. After the wild-type and P2615 mutated proteins were expressed in HEX293 cells, α-MSH (10-11-10-5 mmol/L) was added, then the intracellular cAMP was detected with dual luciferase reporter assay system. When the concentration of α-MSH added was 10-9-10-8 mmol/L, the intracellular cAMSH concentration of the cells transfected with Wild-type MC4R gene was significantly higher than that of the cells transfected with F2615 mutation gene (PC0.05). When the concentration of a-MSH added was 10-7-10-5 mmol/L, the

differences became even more significant (all P<0.01). The novel MC4R mutation F261S undermined the signal transduction, and it might be the possible reason leading to monogenic mutation obesity in Chinese.

L8 ANSWER 3 OF 632 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2006:198063 HCAPLUS
TITLE: A POMC variant implicates β-melanocytestimulating hormone in the control of human energy

AUTHOR (S):

balance
Lee, Yung Seng: Challis, Ben G.: Thompson, Darren A.;
Yeo, Giles S. H.: Keogh, Julia M.: Madonna, Michael
E.: Wraight, Vicki: Sims, Matthew: Vatin, Vincent:
Meyre, David; Shield, Julian; Burren, Christine;
Ibrahim, Zala: Cheetham, Tim: Swift, Peter;

Blackwood.

CORPORATE SOURCE:

Anthea: Hung, Chiao-Chien Connie; Wareham, Nicholas J.: Froquel, Philippe: Milhauser, Glenn L.: O'Rahilly, Stephen: Farooqi, I. Sadaf University Department of Clinical Biochemistry, Addenbrooke's Hospital, Cambridge Institute for Medical Research, Cambridge, GB2 2XY, UK Cell Metabolism (2006), 3(2), 135-140 CODEN: CMEEB5: ISSN: 1550-4131 Cell Press Journal

SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE: Journal English

MENT TYPE: Journal UNGE: English English Type: English UNGE: English The melanocortin-4 receptor (MC4R) plays a critical role in the control of energy balance. Of its two pro-opiomelanocortin (POMC)-derived liqands, α and β -MSH, the majority of attention has focused on α -MSH, partly reflecting the absence of β -MSH in rodents. We screened the POMC gene in 538 patients with severe, early-onset obssity and identified five unrelated probands who were heterozygous for a rare missense variant in the region encoding β -MSH, Tyr221Cys. This frequency was significantly increased (p < 0.001) compared to the general UK Caucasian population and the variant cosegiegated with obssity/overweight in affected family members. Compared to wild-type β -MSH, the variant peptide was impaired in its ability to bind to and activate signaling from the MC4R. Obsec children carrying the Tyr221Cys variant were hyperphagic and showed increased linear growth, both of which are features of MC4R deficiency. These studies support a role for β -MSH in the control of human energy homeostasis.

L8 ANSWER 4 OF 632 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2006:165649 HCAPLUS
TITLE: Preparation of piperidine derivatives as malancoortin-4 receptor agonists
INVENTOR(S): Barakat, Khaled J.; Guo, Liangqin; Liu, Jian;

Nargund,

Ravi P.; Sebhat, Iyassu K.; Ye, Zhixiong Merck & Co., Inc., USA PCT Int. Appl., 79 pp. CODEN: PIXXD2 PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

Patent English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATI	PATENT NO.						DATE			APPL	ICAT	ION I	NO.		D.	ATE	
						-									-		
WO :	2006	0197	87		A2		2006	0223	1	WO 2	005-	US24	806		2	0050	713
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	ΒY,	BZ,	CA,	CH,
		CN,	co,	CR,	Cυ,	CZ,	DΕ,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	ΗU,	ID,	ΙL,	IN,	IS,	JP,	ΚE,	KG,	KM,	ΚP,	KR,	ΚZ,
		LC,	LK,	LR,	LS,	LT,	LU,	LV,	ΜA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NА,
		NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,
		SL,	SM,	SY,	ΤJ,	TM,	TN,	TR,	TT,	TZ,	UA,	υG,	US,	UZ,	vc,	VN,	YU,
		ZΑ,	ZM,	ZW													
	RW:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GΒ,	GR,	ΗU,	IE,
		IS,	IT,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,
		CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG,	BW,	GH,
		GM,	ΚE,	LS,	MW,	ΜZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,
		KG,	KZ,	MD,	RU,	TJ,	TM										
PRIORITY	APP	LN.	INFO	. :						US 2	004-	5884	94P		P 2	0040	716

The title piperidine derivs. I {wherein m = 0-2; n = 1-2; R1 and R2 = independently halo, CF3, CH3, and OMe: R3 and R4 = independently halo, CF3, CN, alkyl, alkoxy, etc.; R5 = OH, halo, alkyl, alkoxy, etc.}, opharmaceutically acceptable salts thereof were prepared as agonists of

human melanocortin-4 receptors (MCR-4). For example,
II was prepared in a multi-step synthesis. The title compds. showed IC50
less than 10 µM against MCR-4. Formulations as hard gelatin capsule
have been described. The compds. are useful for the treatment, control,
or prevention of diseases and disorders responsive to the activation of
MCR-4, such as obesity, diabetes, male or female sexual
dysfunction.

L8 ANSWER 5 OF 632 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2006:164650 HCAPLUS
TITLE: 2006:164650 HCAPLUS
ACYLIAGE PROPERTY ASSIGNED ACYLIAGE PR DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

APPLICATION NO. PATENT NO. KIND DATE WO 200602277 A2 20060223 WO 2005-US2505 20050715

W: AE, AG, AL, AH, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, II, N, IS, JP, KE, KG, KM, KP, KR, KR,
LC, LK, LR, LS, LT, LU, LV, NA, MD, MG, NK, MN, MW, MC, MZ, NA,
NG, NI, NO, NZ, OM, PG, PH, PI, PT, RO, RU, SC, SD, SE, SG,
SL, SM, SY, TJ, TM, TN, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
ZA, ZM, ZW

RW: AT, BS, BG, CH, CY, CZ, DE, DK, EB, ES, FI, FR, GB, GR, HU, IE,
IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
CF, CG, CH, CH, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AH, AZ, BY,
PRIORITY APPLN. INFO::

US 2004-589089P P 20040719

Certain novel N-acylated piperidine derivs. are agonists of the human malanocortin receptor(s) and, in particular, are selective agonists of the human malanocortin-4 receptor (MC-4R). They are therefore useful for the treatment, control, or prevention of diseases and disorders responsive to the activation of MC-4R, such as obseity, diabetes, sexual dysfunction, including erectile dysfunction and female sexual dysfunction.

L8 ANSWER 7 OF 632 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2006:115969 HCAPLUS
TITLE: Screening for melanocortin-4
receptor mutations in a cohort of Belgian
morbidly obese adults and children
AUTHOR(S): Beckers, S.: Mertens, I.; Peeters, A.; Van Gaal, L.;
Van Hul, W.

CORPORATE SOURCE:

Van Hul, W. Department of Medical Genetics, University and University Hospital Antwerp, Wilrijk, Belg. International Journal of Obesity (2006), 30(2), 221-225
CODEN: IJOBDP: ISSN: 0307-0565
Nature Publishing Group SOURCE:

PUBLISHER:

DOCUMENT TYPE: LANGUAGE:

LISHER: CODEN: IJOBDP; ISSN: 0307-0565

Nature Publishing Group

JUNEMIT TYPE: Journal

UNGENT TYPE: Journal

UNGENT TYPE: Brights

Objective:To investigate whether pathogenic melanocortin-4

receptor (MCRR) mutations are a common cause of obesity

in Belgium. Design:Cross-sectional mutation anal. Subjects:In total, 95

morbidly obese adults (mean age 44.02±11.35 years; mean BMI

47.87±4.17 kg/m2) and 123 obese children and adolescents were screened

for mutations in MC4R (mean age 16.56±2.58 years; BMI>95th percentile

for age and sex; mean % overweight 170.86±23.63). Measurements:A series

of anthropometric (e.g. weight, height, waist, hip), biochem, and clin.

measurements were performed on all subjects. The entire coding region of

MC4R was screened using DMPLC, a highly sensitive and specific method for

mutation anal. Direct sequencing was performed when the chromatogram

deviated from the WT pattern. Results:Mutation screening of a cohort of

Belgian obese adults and children did not detect any pathogenic mutations

so only the previously described polymorphisms Vall0311e, Thril2Met and

Ile251Leu were detected.Conclusion:Pathogenic mutations in MC4R are not a

common cause of obesity in a Belgian population of obese adults,

children and adolescents.International Journal of Obesity (2006)

30, 221-225.

L8 ANSWER 6 OF 632 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2006:115974 HCAPLUS
TITLE: The importance of acclimatisation and habituation to experimental conditions when investigating the anorectic effects of gastrointestinal hormones in the rat

AUTHOR (S): Abbott, C. R.; Small, C. J.; Sajedi, A.; Smith, K.

Parkinson, J. R. C.; Broadhead, L. L.; Ghatei, M. A.; Bloom, S. R. Endocrine Unit, Imperial College London, Hammersmith Campus, London CORPORATE SOURCE:

Endocrine Unit, imperial College London, Hammer Campus, London International Journal of Obesity (2006), 30(2), 288-292 SOURCE .

208-292 CODEN: IJOBDP; ISSN: 0307-0565 Nature Publishing Group Journal

PUBLISHER: TYPE:

LANGUAGE:

MENT TYPE: Journal
UNGE: English
Objective:Peptide YY3-36 (PYY3-36), glucagon-like peptide-1 (GLP-1),
oxyntomodulin and cholecystokinin (CCK) are gastrointestinal-derived
hormones that are released postprandially in proportion to the amount of
calories ingested. All significantly reduce food intake following
peripheral administration to rodents. We have investigated the effect of
handling, exposure to a novel environment or to environmental enrichment
on the anorectic effect of these gut hormones.Results:Results suggest

that

the transfer of a rat into a novel environment (cage change) inhibits the anorectic response to peripherally administered PYY3-36 and oxyntomodulin (1 h food intake reduction (% saline control): PYY/home cage 82.325.9%, P<0.05: PYY/clean cage 103.429.7%; oxyntomodulin/home cage 71.6112.1%, P<0.05; oxyntomodulin/clean cage 103.018.5%) and attenuates the anorectic response to GLP-1 and CCK (1 h food intake reduction

(% saline control): GLP-1/home cage 68.816.4%, P<0.01; GLP-1/clean cage 80.019.3%; CCK/home cage 49.816.2%, P<0.001; CCK/clean cage 69.410.6%, P<0.05). We have also observed that exposure to a novel environment does not alter anorectic effect of peripherally administered melanocortin 3/4 receptor agonist, melanotan II (MTII)

(1 h food intake reduction (% saline control): MTII/home cage 32.016.3%, P<0.001; MTII/clean cage 24.814.2%, P<0.001). The attenuation in food intake observed following exposure to a novel environment can be attributed,

in part, to a significant reduction in the food intake of the saline treated

animals. In a further study, the anorectic effect of peripherally administered PYY3-36 is attenuated in unhandled rats (8814.2% saline control, Pens) or rats exposed to environmental enrichment (103.395.7% saline control, Pens) or rats exposed to environmental enrichment (103.395.7% saline control, Pens), but not in animals that were handled extensively prior to the study (80.117.3% saline control, Pc0.05). Conclusion:These studies highlight the importance of handling, acclimatisation and habituation of rodents to exptl. conditions prior to investigating the ability of gut hormones to alter food intake.International Journal of Obesity (2006) 30, 288-292.

L8 ANSWER 8 OF 632 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2006:112887 HCAPLUS
TITLE: The rise, fall, and resurrection of the ventromedial hypothalamus in the regulation of feeding behavior

and

AUTHOR(S): CORPORATE SOURCE:

body weight King, Bruce M. Department of Psychology, University of New Orleans, New Orleans, LA, 70148 Physiology & Behavior (2006), 87(2), 221-244 CODEN: PHBHA4; ISSN: 0031-9384 Elsevier B.V.

SOURCE:

PUBLISHER Journal

DOCUMENT TYPE: LANGUAGE:

AGE: English
Early researchers found that lesions of the ventromedial hypothalamus Early researchers found that lesions of the ventromedial hypothalamus (VMH) resulted in hyperphagia and obeatty in a variety of species including humans, which led them to designate the VMH as the brain's "satiety center." Many researchers later dismissed a role for the VMH in feeding behavior when Gold claimed that lesions restricted to the VMH did not result in overeating and that obesity was observed only with lesions or knife cuts that extended beyond the borders of the VMH did amaged or severed the ventral noradrenergic bundle (VNAB) or paraventricular nucleus (PVN). However, anatomical studies done both before and after Gold's study did not replicate his results with lesions, and in nearly every published direct comparison of VMH lesions vs. PVN

VNAB lesions, the group with VMH lesions ate substantially more food and gained twice as much weight Several other important differences have

been found between VMH and both PVN and VNAB lesion-induced been found between VMH and both PVN and VNAB lesion-induced obesity. Concerns regarding (a) motivation to work for food and (b) the effects of nonirritative lesions have also been addressed and answered in many studies. Lesion studies with weanling rats and adult pair-tube-fed rats, as well as recent studies of knockout mice deficient in the orphan nuclear receptor steroidogenic factor 1; indicate that VMH lesion-induced obesity is in large part a metabolic clossity (due to autonomic nervous system disorders) independent of hyperphagia. However, there is ample evidence that the VMH also plays a primary role in feeding behavior. Neuroimaging studies in humans have shown a marked increase in activity in the area of the VMH during

feeding.

The VMH has a large population of glucoresponsive neurons that

The VMH nas a large pyr----dynamically
respond to blood glucose levels and numerous histamine, dopamine,
serotonin, and GABA neurons that respond to feeding-related stimuli.
Recent studies have implicated melanocortine in the VMH
regulation of feeding behavior: food intake decreases when arcust

pro-opiomelanocortin (POMC) neurons activate VMH brain-derived pro-opiomelanocortin (POMC) neurons. Moderate hyperphagia and obsativy have also been observed in female rats with damage to the efferent projections from the posterodorsal amygdals to the VMH. Hypothalamic obsative and result from damage to either the POMC or BOMF neurons. The concept of hypothalamic feding and satiety centers is outdated and unnecessary, and progress in understanding hypothalamic mechanisms of feeding behavior will be achieved only by appreciating the different types of neural and blood-borne information received by the various nuclei, and then attempting to determine how this information is integrated to obtain a balance between energy intake and energy output.

L8 ANSWER 8 OF 632 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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L8 ANSWER 9 OF 632 HCAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER:
TITLE:
CORPORATE SOURCE:
Neurosciences,
Neurosciences,
Neurosciences,
SOURCE:
PEPSITURE:
CORPORATE SOURCE:
Neurosciences,
Neurosciences,
Neurosciences,
SOURCE:
PEPSITURE:
PUBLISHER:
Elsevier Inc.
DOCUMENT TYPE:
Journal
LANGUAGE:
Benjish
AB Mutations in the human melanocortin-4 receptor (MC4R)
gene have been associated with severe obesity. Menny of the
mutations result in partial or complete loss-of-function based on the
nature of the mutation or the function of mutated receptors when
tested in heterologous expression systems. This review discusses the
role
of MC4R in the central regulation of body weight, the pathogenic
mechanisms
of the mutations, and the validity of MC4R as an anti-obesity
drug target.
REFERENCE COUNT:
88 THERE ARE 88 CITED REFERENCES AVAILABLE FOR
THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE
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L8 ANSWER 10 OF 612 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
2006:109428 HCAPLUS
Helanocortin-4 receptors,
FITTLE:
PARTHANG ACCESSION NUMBER:
2006:109428 HCAPLUS
Helanocortin-6 Proceptors,
PHSH and leptin: Key elements in the satiety
packway
AUTHOR(S):
AUTHOR(S):
AUTHOR(S):
Belanocortin-6 Proceptors,
AUTHOR(S):
AUTHOR(S):
Belanocortin-6 Proceptors,
AUTHOR(S):
Belanocortin-6 Proceptors,
AUTHOR(S):
Belanocortin-7 Receptors,
AUTHOR(S):
Belanocortin-6 Proceptors,
AUTHOR(S):
Belanocortin-7 Receptors,
AUTHOR(S):
Belanocortin-8 Receptors,
AUTHOR(S):
Belanocortin-8 Receptors,
Belanocortin-8 Receptors,
Belanocortin-8 Receptors,
Belanocortin-9 Receptors,
Belanocortin-9 Receptors,
Belanocortin-9 Receptors,
Belanocortin-9 Receptors,
Belanocortin-9 Receptors,
Belanocortin-1 Receptors,
Bela
```

FORMAT

ANSWER 12 OF 632 HCAPLUS COPYRIGHT 2006 ACS on STN SSION NUMBER: 2006:109420 HCAPLUS ACCESSION NUMBER: TITLE: AUTHOR(S): The melanocortin system and energy balance Butler, Andrew A CORPORATE SOURCE: Pennington Biomedical Research Center, Louisiana University System, Baton Rouge, LA, 70808, USA Peptides (New York, NY, United States) (2006), 27(2), 281-290 SOURCE: CODEN: PPTDD5; ISSN: 0196-9781 Elsevier Inc. PUBLISHER: DOCUMENT TYPE: Journal English English Processing of pro-optioned from the post-translational processing of pro-optionelanocortin (POMC), regulate ingestive behavior and energy expenditure. Loss of function mutations of genes encoding POMC, or of either of two melanocortin receptors expressed in the central nervous system (MCSR, MC4R), are associated with obesity. The analyses of NC4R knockout mice indicate that activation of this receptor is involved in the regulation of appetite, the adaptive metabolic response to excess caloric consumption, and neg. energy belance associated with cachexia induced by cytokines. In contrast, MC3R knockout mice exhibit a normal, or even exaggerated, response to signals that induce a state of neg. energy belance. However, loss of the MCSR also results in an increase in adiposity. This article discusses the regulation of energy balance by DOCUMENT TYPE: melanocortins. Published and newly presented data from studies analyzing of energy balance of MC3R and MC4R knockout mice indicate that increased adiposity observed in both models involves an imbalance in fat intake and oxidation

REFERENCE COUNT: 64 THERE ARE 64 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 13 OF 632 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

0 - 4; y = 0, 1], their acid addn. salts as well as their hydrates or
solvates, procedures for their prepn. and their therapeutic applications.
The procedure for their prepn. is characterized by reductive amination of
amide II with ketones. Thus, tropanamine III'HCl was prepd. from
N-Boc-tropinone via reductive amination with N-[8-(4-chloro-Dphenylalanyl)-8-azabicyclo[3.2.1]oct-8-yl]-N-cyclohexyl-N', N'-diethylurea
in CH2Cl2 contg. Na(AcO)3BH and N-deprotection with aq. HCl. The
agonistic activity of vs. melanocortin receptors was
detd. [ICSO = 770 nm vs. HC3 and ICSO = 150 nm vs. MC4].

REFERENCE COUNT:

4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

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ANSWER 13 OF 632 HCAPLUS COPYRIGHT 2006 ACS ON STN SSION NUMBER: 2006:100777 HCAPLUS
 ACCESSION NUMBER:
  DOCUMENT NUMBER:
                                                                                                                       144:192411
                                                                                                                     144:192411
Preparation of aminotropane derivatives and their therapeutic applications
Braun, Alain: Cornet, Bruno: Courtemanche, Gilles: Crespin, Olivier: Pascal, Cecile
Sanofi-Synthelabo, Fr.
Fr. Demande, 52 pp.
CODEN: FRXXBL
  TITLE:
 INVENTOR(S):
 PATENT ASSIGNEE(S):
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                      FR 2873693 A1 20060203 FR 2004-8372 20040729
W0 2006021657 A1 20060303 W0 2005-FR1856 20050720
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CM, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ,
LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, M2, NA,
NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,
SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
ZA, ZM, ZM
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IS, IT, LT, UJ, LV, MC, NL, PL, PT, RO, RU, SI, SM, ST, BF, BJ,
CF, CG, CI, CM, GA, GN, GQ, GM, ML, NR, NE, SN, TD, TG, BW, GH,
KG, KZ, MD, RU, TJ, TM

ITY APPLN. INFO:: FR 2004-8372 A 20040729
                        PATENT NO.
                                                                                                                       KIND
                                                                                                                                                      DATE
                                                                                                                                                                                                                APPLICATION NO.
                                                                                                                                                                                                                                                                                                                            DATE
 PRIORITY APPLA
 * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
                    The invention relates to aminotropane derivs. I [Ra, Ra', R5 = H, alkyl, cycloalkyl; R1 = H, alkyl, cycloalkyl, heterocycloalkyl, aryl; R2 = (CH2)x(CO)y, (CO)y(CH2)x; Y = H, OH, alkyl, cycloalkyl, alkoxy, aryl, heteroaryl, NRI1R12; R3 = 1 to 3 groups chosen among halogen, alkyl, cycloalkyl, OR, NRR', CO-NRR', NR-CO-NRR', NR-RIP, A-CHN-NR, NR-RIP, A-CHN-NR-RIP, A-NR-RIP, NR-RIPA', NR-RIP, NR-RIP, NR-RIP, NR-CO-NRR', NR-CO-NR', NR-CO-NRR', NR-CO-NR', NR-CO-NRR', NR-CO-NR', NR-CO-NRR', NR-CO-NRR', NR-CO-NRR', NR-CO-NR', NR-CO-NR'
 chain;

X1 = (CH2)a; X2 = (CH2)r; a, p = 0 - 3; m = 0 - 2; r = 1 - 3; s = 0, 1; x
L8 ANSWER 14 OF 632 HCAPLUS COPYRIGHT 2006 ACS ON STN ACCESSION NUMBER: 2006:100774 HCAPLUS DOCUMENT NUMBER: 144:192495 TITLE: Preparation 4
                                                                                                                   144:192495
Preparation of aminopiperidines, particularly aminopiperidine-D-phenylalanine derivatives, as melanocortin receptor agonists
Braun, Alain: Cornet, Bruno: Courtemanche, Gilles: Crespin, Olivier: Fett, Eykmar: Pascal, Cecile Sanofi-Synthelabo, Fr.
Fr. Demande, 62 pp.
CODEN: FRXXBL
Patent
 INVENTOR (S):
  PATENT ASSIGNEE(S):
 SOURCE:
 DOCUMENT TYPE:
                                                                                                                       Patent
 LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                                                                                       French
                        PATENT NO.
                                                                                                                       KIND
                                                                                                                                                DATE
                                                                                                                                                                                                                APPLICATION NO.
                                                                                                                                                                                                                                                                                                                             DATE
                                                                                                                                                                                                               FR 2004-8370
WO 2005-FR1855
                                                                                                                        A1
A2
                        FR 2873691
WO 2006021656
                                                                                                                                                       20060203
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WO 2006021656 A. 20060302 WO 2005-FR1855 20050720
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ,
LC, LK, LR, LS, LT, LU, LV, HA, MD, MG, MT, MN, MW, MZ, NA,
NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,
SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, KB, HU, IE,
IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
GM, KE, LS, MM, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM
PRIORITY APPLN. INFO::

PROORITY APPLN. INFO::
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- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- AB Title compds. I [Ra, Ra' = independently H, cyclo/alkyl; R1 = H, cyclo/heterocyclo/alkyl; aryl; R2 = (CH2)m-(CO)n-Y, (CO)n-(CH2)m-Y; m = 0-4; n = 0-1; Y = H, OH, cyclo/alkyl, heteroaryl, etc.; R3 = independently halo, cyclo/alkyl, OH and derivs., NH2 and derivs., etc.; R5 = H, alkyl; R4 = (un)substituted tetrahydrofuranyl, cyclopentyl, adamantyl, etc.; an their free bases, and acid addition salts, and their hydrates and acidately.
- solvates)
 were prepared as ligands, particularly agonists, of melanocortin
 MC3 and/or MC4 receptors. Thus, reductive amination of
 3-quinuclidinone-HC1 with amine II (preparation given) and acidulation

HCl gave aminopiperidine salt III=xHCl (m.p. = 169°). In a radioligand assay, I exhibited binding affinity towards MC3 and MC4 receptors [ICSO for III = 300 nM towards MC4 receptor]. III displayed an ECSO of 376 nM and 30 nM towards MC3 and MC4 receptors in a test evaluating the agonistic activity by monitoring the cAMP formation stimulated by MC3 or NC4 receptors. I are useful for treating obssity, diabetes, and sexual

ANSWER 14 OF 632 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued) THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

L8 ANSWER 15 OF 632 HCAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
11TLE:
2006:100772 HCAPLUS
144:192494
Preparation of oxopiperidines, particularly piperidino-D-phenylalanine derivatives, as melancoortin receptor agonists
INVENTOR(5):
Braun, Alain: Courtemanche, Gilles: Crespin, Olivier; Pett. Eykmar; Pascal, Cecile
Sanofi-Synthelabo, fr.
SOURCE:
Fr. Demande, 59 pp.
CODEN: FRXXBL
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATE	ENT I	NO.			KIN	D	DATE			APPL					D.	ATE	
						-									-		
FR 2	2873	690			A1		2006	0203		FR 2	004-	8369			2	0040	729
WO 2	2006	0216	55		A2		2006	0302	1	WO 2	005-	FR18	54		2	0050	720
	W:	AE.	AG.	AL.	AM,	AT.	ΑU,	AZ.	BA,	BB.	BG,	BR,	B₩,	BY,	BZ,	CA,	CH,
							DE,										
		GE,	GH,	GM,	HR,	Hυ,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	ЮM,	KP,	KR,	ΚZ,
		LC,	LK,	LR,	LS,	LT.	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	ΜX,	MZ,	NΑ,
		NG,	NI,	NO.	NZ.	OM.	PG,	PH,	PL,	PT,	RO,	RU,	sc,	SD,	SE,	SG,	SK,
							TN,										
		ZA,	ZM,	ZW													
	RW:	AT.	BE.	BG.	CH,	CY,	CZ,	DE.	DK,	EE,	ES,	FI,	FR,	GB,	GR,	ΗU,	IE,
							MC,										
							GN,										
							NA,										
			KZ.										-				
TORITY	ADD	I.N	TNFO	-						FR 2	004-	8369			A 2	0040	729

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Title compds. I $\{X = \{CH2\}n; n = 0-1; Ra, Ra', Rb, Rb' = independently H, cyclo/alkyl; or Rb, Rb' can form a bridge together with the carbons they are attached; R1 = cyclo/alkyl; R2 = heteroaryl; R3 = 1-3 groups independently selected from halo, cyclo/alkyl, OH and derivs., NN2 and derivs., etc.; R5 = H, cyclo/alkyl; R4 = substituted tetrahydrofuranyl, cyclopentyl, adamantyl, etc.; their free bases, and acid addition salts,$

their hydrates and solvates) were prepared as ligands, particularly agonists, of melanocortin MC3 and/or MC4 receptors. Thus, II (m.p. = 60°) was prepared by reductive amination of cyclohexanone with amine III (preparation given). In a radioligand

assay, I exhibited binding affinity towards MC3 and MC4 receptors [IC50 for II = 250 nM towards MC4 receptor]. II displayed an EC50 of 209 nM and 52 nM towards MC3 and MC4 receptors in a test

L8 ANSWER 15 OF 632 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
evaluating the agonistic activity by monitoring the cAMP formation
stimulated by MC3 or MC4 receptors. I are useful for treating
obesity, diabetes, and sexual dysfunctions.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 16 OF 632 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 2006:53201 HCAPLUS DOCUMENT NUMBER: 144:150243 Freparation of piperidine design.

144:150243
Preparation of piperidine derivatives and analogs
thereof as NK1 antagonists
Palani, Anandan: Huang, Xianhai: Xiao, Dong: Paliwal,
Sunil: Tsui, Hon-Chung: Wrobleski, Michelle Laci; INVENTOR(S):

Rao.

Ashwin U.; Wang, Cheng; Shah, Sapna S.; Shih,

Neng-Yang Schering Corporation, USA PCT Int. Appl., 158 pp. CODEN: PIXXD2

SOURCE: DOCUMENT TYPE:

Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT ASSIGNEE(S):

PATI	PATENT NO.					D	DATE			APPL	ICAT	ION	NO.		D.	ATE	
						-									_		
WO 2	2006	0075	40		A2		2006	0119	1	NO 2	005-	US23	427		2	0050	629
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BŹ,	CA,	CH,
		CN,	co,	CR,	CU,	CZ,	DE,	DK,	DM,	D2,	ĒC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	ΗU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KM,	KP,	KR,	KZ,
		LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	ΜK,	MN,	MW,	MX,	MZ,	ΝA,
		NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	sĸ,
		SL,	SM,	SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,
		ZA,	ZM,	ZW													
	RW:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	ΗU,	IE,
		IS,	IT.	LT.	LU,	MC,	NL,	PL.	PT,	RO,	SE,	SI,	SK,	TR.	BF.	BJ,	CF.
		CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BW,	GH,	GM,
		KE.	LS,	MW.	MZ.	NA.	SD,	SL,	SZ,	TZ.	UG,	ZM,	ZW,	AM,	AZ.	BY.	KG.
		KZ.	MD.	RU,	TJ.	TM											
RIORITY	APP	LN.	INFO	. :						US 2	004-	5845	02P		P 2	0040	701

PR GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Title compds. I [R1 and R2 independently = H, alkyl, haloalkyl, CN, etc.; R3 = H, alkyl, CH2OH, alkoxymethyl; R4 = H, alkyl, cycloalkyl, etc.; Arl and Ar2 = (un)substituted aryl; n = 0-2), or their pharmaceutically acceptable salts and/or solvates thereof, are prepared and disclosed as AΒ

antagonists. Thus, e.g., II was prepared by N-acetylation of aminopiperidine III (preparation given) with 2-chloroethylchloroformate followed by intramol. cyclocondensation and deprotection. I exhibited potent affinities for the NKI receptor, e.g., II demonstrated a Ki value of 0.12 nM. I should prove useful in treating diseases or conditions mediated by NKI receptors, for example various physiol. disorders, symptoms or diseases, including emesis, depression, anxiety and cough.

R ANSWER 17 OF 632
CCESSION NUMBER:
2006:45792 HCAPLUS
Does Chesity Induce Resistance to the
Long-Term Cardiovascular and Metabolic Actions of
Melanocortin 3/4 Receptor
Activation?
ds Silva, Alexandre A.: Kuo, Jay J.: Tallam, Lakshmi
S.; Lu, Jiankang; Hall, John E.
DORPORATE SOURCE:
Department of Physiology and Biophysics and Center of
Excellence in Cardiovascular-Renal Research,
University of Mississippi Medical Center, Jackson,
S. CORPORATE SOURCE: USA
SOURCE: Hypertension (2006), 47(2), 259-264
CODEN: HYRTDN: ISSN: 0194-911X
Lippincott Williams & Wilkins
DOCUMENT TYPE: Journal
LANGUAGE: English

Repetors (NC3/4-R) markedly attenuates the chronic hypertensive effects of leptin. Although obesity has been reported to be associated with leptin "resistance," it is unclear whether obesity alters the cardiovascular and metabolic effects of chronic MC3/4-R activation. Therefore, we tested whether the cardiovascular and metabolic metabolic actions of MC3/4-R activation are attenuated in Sprague-Dawley rats fed a high-fat diet (HF, n=6) compared with rats fed a standard chow (NF, n=6) $12\ \mathrm{mo}$. A 21G steel cannula was placed in the lateral ventricle for ICV infusion, and arterial and venous catheters were implanted for measurement
of mean arterial pressure (MAP) 24 h/day and IV infusions. After a 5-day
control period, rats were infused with MC3/4-R agonist melanotan II (10
ng/h, ICV), for 10 days followed by a 5-day recovery period. HF rats

heavier (558±21 vs. 485±13 g) with 140% more visceral fat than NF rats, hyperleptinemic (8.9±0.5 vs. 2.7±0.5 ng/mL), and insulin resistant. HF rats also had higher MAP (109±3 vs. 100±1 mm Hg). Chronic melanotan II infusion significantly increased MAP in HF and NF (7±2 and 6±1 mm Hg), decreased caloric intake (-3±2±2 and -25±2 kcal/day), and reduced insulin levels in both groups by -50%. Thus, the metabolic and cardiovascular actions of chronic MC3/4-R activation are preserved in diet-induced obesity, supporting a potential role for the hypothalamic melanocortin system in obesity hypertension.

L8 ANSWER 18 OF 632 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued) RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L8 ANSWER 18 OF 632 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2006:20919 HCAPLUS

TITLE: 44:184849 Molecular Characterization of Human Malancoortin-3 Receptor Ligand-Receptor Interaction

AUTHOR(S): Chen, Min; Aprahamian, Charles J.; Celik, Ahmet; Georgeson, Keith E.; Garvey, W. Timothy; Harmon, Carroll M.; Yangy Yingkui

CORPORATE SOURCE: Department of Surgery, and Department of Nutrition
   CORPORATE SOURCE:
COMPORATE SOURCE: Department of Surgery, and Department of Nutrition and Sciences, University of Alabama at Birmingham, Birmingham, AL, 35233, USA

SOURCE: Biochemistry (2006), 45(4), 1128-1137 CODEN: BICHAM: HSN: 0006-2960

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

AB Malancortin-3 receptor (RCCS), primarily expressed in the hypothalamus, plays an important role in the regulation of energy homeostasis. NCSR-deficient (MCSR-/-) mice demonstrate increased fat mass, higher feeding efficiency, hyperleptinemia, and mild hyperinsulinism. At least one specific mutation of MCSR has been identified to be associated with human obesity. Functional anal. of this altered MCSR (193N) has indicated that the mutation completely abolishes agonist-mediated receptor activation. However, the specific mol. determinants of MCSR responsible for ligand binding and receptor signaling are currently unknown. The present study is to determine the structural aspects of MCSR responsible for ligand binding and
                              receptor signaling. On the basis of the authors' theor. model for MCIR, using mutagenesis, the authors have examined 19 transmembrane
                     min amino acids selected for these potential roles in ligand binding and receptor signaling. The authors' results indicate that (i) substitutions of charged amino acid residues E131 in transmembrane domain 2 (TM2), D154 and D158 in TM3, and H298 in TM6 with alanine dramatically reduced NDP-MSH binding affinity and receptor signaling, (ii) substitutions of aromatic amino acids F295 and F296 in TM6 with alanine
                         significantly decreased NDP-MSH binding and receptor activity,
(iii) substitutions of D121 in TM2 and D332 in TM7 with alanine resulted
in the complete loss of ligand binding, ligand induced receptor
activation, and cell surface protein expression, and (iv) interestingly,
substitution of L165 in TM3 with methionine or alanine switched
 substitution of Arco analysis analysis analysis analysis analysis analysis analysis analysis and the authors' results suggest that TM3 and TM6 are important for NDP-MSH binding, while D121 in TM2 and D332 in TM7 are crucial for receptor activity and signaling. Importantly, L165 in TM3 is critical for agonist or antagonist selectivity. These results provide important information
   about the mol. determinants of hMC3R responsible for ligand binding and
    receptor signaling.
REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR
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L8 ANSWER 19 OF 632 HCAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 2006:13930 HCAPLUS
DOCUMENT NUMBER: 144:101945
TITLE: Genotyping single nucleotide poly

144:101945
Genotyping single nucleotide polymorphisms of G
protein coupled receptor gene GPR40 for
diagnosis and treatment of human metabolic diseases
Houseknecht, Karen L.; Banerjee, Poulabl
Pfizer Inc., USA
U.S. Pat. Appl. Publ., 25 pp.
CODEN: USXXCO INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

English

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAT	PATENT NO.					D	DATE			APPL	ICAT	ION	NO.		D	ATE	
						-											
บร	2006	0033	44		A1		2006	0105		US 2	005-	4602	0		2	0050	128
WO	2006	0060	62		A1		2006	0119	,	WO 2	005~	IB19	62		21	0050	620
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	ΗU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KM,	KP,	KR,	ΚZ,
		LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	ΜK,	MN,	MW,	ΜX,	ΜZ,	NΑ,
		NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	sc,	SD,	SE,	SG,	SK,
		SL,	SM,	SY,	TJ,	TM,	TN,	TR,	TT,	ΤZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,
		ZA,	ZM,	ZW													
	RW;	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	ΗU,	IE,
		IS,	IT,	LT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	sк,	TR,	BF,	ВJ,	CF,
		CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BW,	GH,	GM,
		KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,	KG,
		ΚZ,	MD,	RU,	ТJ,	TM											
PRIORITY	APP	LN.	INFO	.:						US 2	004-	5846	86P	- 1	P 2	0040	630

This invention relates to genotyping methods, methods of treatment, diagnostic tests and kits and methods of characterizing an agent, related to a single nucleotide polymorphism of the GPR40 gene.

US 2005-46020

A 20050128

L8 ANSWER 20 OF 632 HCAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
11TLE:
11TLE:
11NVENTOR(S):
12 EXECUTE ASSIGNEE (S):
22 EXECUTE ASSIGNEE (S):
23 EXECUTE ASSIGNEE (S):
24 EXECUTE ASSIGNEE (S):
25 EXECUTE ASSIGNEE (S):
26 EXECUTE ASSIGNEE (S):
27 EXECUTE ASSIGNEE (S):
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27 EXECUTE ASSIGNEE (S):
28 E

PATENT NO. A1 20060105 APPLICATION NO. DATE
US 2005-171711 20050630
US 2004-584925P P 20040701 US 2006003991 PRIORITY APPLN. INFO.:

GI

Benzodiazepines, I, wherein Ar is 5-14 membered aryl or heteroaryl ring substituted by one to four substituents each of which is independently selected from Cl-6-alkyl, Cl-6-alkenyl, halo, amino, Cl-6-alkylamino, Cl-6-alkylamino, hydroxy, Cl-6-alkoy, Cl-6-haloalkoxy, Cl-6-haloalkyl, cyano or Cl-6-alkylsulfonyl; Q is a (un)substituted N,N-dimethylaminobenzene derivative or an (un)substituted argine; Y is an (un)substituted indazole; Z is H or Cl-6-alkoxy are prepared and tested in a receptor gene assay specific to the melanocortin 4

L8 ANSWER 20 OF 632 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued) receptor. Thus, II was prepd. and recorded a pEC50 value of 6.51. These compds. can be used in the pharmaceutical treatment of obsaity, diabetes, inflammation, depression, male and female sexual dysfunction and anxiety.

Page 12 03/12/2006

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Andrew Freistein 10/788,859
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=> s piperazin?
L9 42929 PIPERAZIN?
=> d his
     (FILE 'HOME' ENTERED AT 15:45:45 ON 10 MAR 2006)
     FILE 'REGISTRY' ENTERED AT 15:45:56 ON 10 MAR 2006
    FILE 'HCAPLUS' ENTERED AT 15:46:05 ON 10 MAR 2006
L1
           2419 S MELANOCORTIN?
L2
         762593 S RECEPTOR
L3
           2149 S L1 AND L2
L4
            40 S MC-4 AND RECEPTOR
L5
           2156 S L3 OR L4
         35357 S OBESITY
L6
L7
         108621 S DIABETES
            632 S (L6 OR L6) AND L5
rs
         42929 S PIPERAZIN?
=> s 19 and 18
       41 L9 AND L8
L10
\Rightarrow d ibib abs 1-15
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L10 ANSWER 1 OF 41 HCAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 2005:1144492 HCAPLUS
DOCUMENT NUMBER: 144:51548
TITLE: Structure-activity relationship
of Structure-activity relationship studies on a series cyclohexylpiperazines bearing a phenylacetamide as ligands of the human melanocortin-4 receptor Pontillo, Joseph; Tran, Joe A.; White, Nicole S.; Arellano, Melissa; Fleck, Beth A.; Marinkovic, AUTHOR (5): Arellano, Melissa: Fleck, Beth A.: Marinkovic,

Dragan:

Tucci, Fabio C.: Saunders, John: Foster, Alan C.: Chen, Chen

Comporate Source:

Department of Medicinal Chemistry, Neurocrine
Biosciences Inc., San Diego, CA, 92130, USA

Source:

Bioorganic & Medicinal Chemistry Letters (2005),
15(23), 5237-5240

COODN: BMCLEE: ISSN: 0960-894X

Elsevier B.V.

DOCUMENT TYPE:

LANGUAGE:

English

AB Synthesis and structure-activity relationship studies of a series of
cyclohexylpiperazines bearing an amide side chain as ligands of the MC4
receptor are discussed. One compound from this series is a potent
pituitary hormone receptor (melanocortin
receptor 4) agonist.

REFERENCE COUNT:

12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR
THIS

RECORD. ALL CITATIONS AVAILABLE IN TUP STEADERS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

L10 ANSWER 2 OF 41 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 2005:1028255 HCAPLUS DOCUMENT NUMBER: 143:472800 143:472800 A review of malanocortin receptor small molecule ligands Todorovic, Alexandar: Haskell-Luevano, Carrie Department of Medicinal Chemistry, University of Florida, Gainesville, FL, 32610, USA Peptides (New York, NY, United States) (2005), TITLE: AUTHOR (S): CORPORATE SOURCE: SOURCE: Peptides (New York, NY, United States) (2005), 26(10), 2026-2036
CODEN: PPTDD5; ISSN: 0196-9781
Elsevier Inc.
DOCUMENT TYPE: Lournal; General Review
LANGUAGE: Dournal; General Review
LANGUAGE: Dournal; General Review
LANGUAGE: Language Language
AB A review. The melanocortin system (MC) is implicated in the regulation of a variety of physiol. pathways including pigmentation, steroid function, energy homeostasis, food intake, obsenity, cardiovascular, sexual function, and normal gland regulation. The melanocortin system consists of five receptors identified to date (MC1-5R), melanocortin agonists derived from the pro-opiomelanocortin prohormone (POMC) and two naturally existing antagonists. Melanocortin receptor ligand structure-activity studies have been performed since the 1960s, primarily focused on the pigmentation aspect of physiol. During the 1990s, the melanocortin-faceoptor was identified to play a significant physiol. role in the regulation of both food intake and obseity. Subsequently, a concerted drug design effort has focused on the design and discovery of melanocortin-receptor small moils. Herein, the authors present an overview of melanocortin receptor heterocyclic small moils.

REFERENCE COUNT: 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS SOURCE: 26(10), RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 41 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 2005:760345 HCAPLUS DOCUMENT NUMBER: 143:367275 Design and symptomic for the state of the 2005:/60349 HACPLUS
143:367275
Design and syntheses of melanocortin
subtype-4 receptor agonists. Part 2:
discovery of the dihydropyridazinone motif
Ujjainwalla, Feroze: Warner, Daniel: Snedden,
Christine: Grisson, Ricky D.: Walsh, Thomas F.;
Wyvratt, Matthew J.; Kalyani, Rubana N.; MacNeil,
Tanya: Tang, Rui; Weinberg, David H.; Van der Ploeg,
Lex; Goulet, Mark T.
Department of Medicinal Chemistry, Merck Research
Laboratories, Rahway, NJ, 07065-0900, USA
Bioorganic & Medicinal Chemistry Letters (2005),
15(18), 4023-4028
CODEN: BMCL8: ISSN: 0960-894X
Elsevier B.V.
Journal AUTHOR (S): CORPORATE SOURCE: SOURCE: PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal
LANGUAGE: English

AB Optimization of the biol. activity of a new class of non-peptidyl,
pyridazinone derived human melaneocrtin subtype-4
receptor agonists is disclosed. Lead compds. in this study
included derivs. of N-[(1R)-3-[6-[(4-chlorophenyl)thio]-2,3-dihydro-2-(4methoxyphenyl)-3-oxo-4-pyridazinyl]-1-methylpropyl]-4-phenyl-3piperidinecarboxamide, and corresponding pyrrolidinecarboxamide and
piperasinecarboxamide derivs. Human melaneocrtin
subtype-4 receptor agonists have potential applications as antiobesity agents (no data).

REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSMER 4 OF 41
ACCESSION NUMBER:
DOCUMENT NUMBER:
131:43767
Preparation of substituted urea-octahydroindoles as antagonists of melanni concentrating hormone receptor 1 (McHIR)
Browning, Andrew: Nilsson, Jonas; Scobie, Martin; Anghent, Johan; Ringom, Rune
Biovitrum AB, Swed.
DOCUMENT TYPE:

DOCUMENT TYPE:

HCAPLUS COPYRIGHT 2006 ACS on STN
2005:493504 HCAPLUS
143:43767
Preparation of substituted urea-octahydroindoles as antagonists of melanni concentrating hormone receptor 1 (McHIR)
Browning, Andrew: Nilsson, Jonas; Scobie, Martin; Anghent, Johan; Ringom, Rune
Biovitrum AB, Swed.
PCT Int. Appl., 272 pp.
CODEN: PIXXD2
Patent DOCUMENT TYPE: Patent English LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO.

WO 2005051381 A1 20050609 WO 2004-5E1620
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, I
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, I
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, I
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MM, MW, MY, N
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SE
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, VU, Z
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, Z
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, C
EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, P
SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, G
US 2005239841 A1 20051027 US 2004-997675
SE 2003-3182 DATE 20041109
BZ, CA, CH,
FI, GB, GD,
KR, KZ, LC,
MZ, NA, NI,
SK, SL, SY,
ZA, ZM, ZW
ZM, ZW, AM,
CZ, DE, DK,
PL, PT, RO,
GW, ML, MR, US 2004-581057P P 20040618 OTHER SOURCE(S): MARPAT 143:43767

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Title compds. I [wherein RO = alkyl, absent; R1, R2 = independently H, halo/aryl/alkyl; R1-R2 = alkylene; R3 = H, thio/carbamoyl, CN, alk(en)yl, etc.; R4 = alkyl, aryl; R5, R6 = independently H, alk(en)yl, alkoxyalkyl, cycloalkyl; R7 = H, alkyl; R8 = H, halo; R9 = H; or R9 form CH2 together with R3; Az = 5-7-membered aryl; 5-7-membered unsatd. heterocyclyl, bicyclyl, etc.; X = O, S, NN, CH-NO2, NCN; and their pharmaceutically acceptable salts, hydrates, geometrical isomers, racemates, tautomers, optical isomers, N-oxides and prodrugs) were prepared as melanin entrating hormone receptor 1 (MCH1R) antagonists. For example, rel-II=TFA was prepared by Pd-cross coupling of 4-bromosniline with 3-cyanophenylboronic acid, reaction with 4-nitrophenylchloroformate in

presence of DIPA/CH2Cl2 and treatment of the carbamate (no data) with (3aS', 6R', 7aS')-3a-(3,4-dimethoxyphenyl)-1-methyloctahydro-1H-1ndol-6-amine (preparation glven). I exhibited ICSO values for the MCH1R receptor in the range 10 nM to 10 µM. I and their

L10 ANSWER 4 OF 41 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
pharmaceutical compns. are useful for the treatment or prophylaxis of
disorders related to the MCHIR receptor and for modulation of
appetite.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR 3

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION: WO 2005051380

M: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, CM, CD, CE, CE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MX, AM, AN, IN, NO, NZ, OM, PG, PH, PL, PT, RG, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2005192339

A1 20050901 US 2004-995948

2007197

US 2004-549644P

P 20040303

P 20031124

L10 ANSMER 5 OF 41 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:493503 HCAPLUS
DOCUMENT NUMBER: 143:43766
ITILE: Preparation of substituted urea-octahydroindols as antagonists of melanin concentrating hormone receptor 1 (MCNIE)
INVENTOR(S): Scobie, Martin: Browning, Andrew Biovitrum AB, Swed. PCT Int. Appl., 72 pp.
COODE: PIXXDZ
DOCUMENT TYPE: Patent
LANGUAGE: PRINCE
English

English

OTHER SOURCE(S): MARPAT 143:43766

DOCUMENT TYPE: LANGUAGE:

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I (wherein R1, R2 = independently alkyl; or R1 and R2 are linked to form alkylene: R3 = H, alkyl, alkoxycarbonyl; aryl, etc.: R4 = H, alkyl; R5 = H, OH, alkyl, alkylaminocarbonyl, aryl, etc.: R4 = H, alkylaminotinoxylcarbonyl; R6 = H, alkyl: R7 = H, alkyleni), alkoxy, arylcarbonyl, etc.: or R6 and R7 are linked to form alkylene: or R6RR7 = (un)substituted piperaxinyl: R8 = H, alkyl: X = O, S, NH, CH-NOZ, NCN; and their pharmaceutically acceptable salts, hydrates, geometrical isomers, racemates, tautomers, optical isomers, N-oxides and prodrugs) were prepared as melanin concentrating hormone receptor 1 (MCHIR) antagonists. For example, reacting (3a5*,7a5*)-1-Benzyl-3a-(3,4-dimethoxyphenyl)octahydro-6H-indol-6-one (preparation given) with (Boc)2O, followed by reduction alkylation

L10 ANSWER 6 OF 41 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005: 490293 HCAPLUS
DOCUMENT NUMBER: 143:43903
TITLE: Preparation of piperatinylguanidinoquinazolinones

as melanocortin-4 receptor (MCR-4) agonists with reduced bioaccumulation

L10 ANSWER 5 OF 41 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued) of NH4OAc in the presence of NaBH3CN/MeON and reaction with benzyl isothiocyanate gave rel-11. I exhibited IC50 values for the MCH1R receptor in the range 10 nM to 10 µM. I and their pharmaceutical compns. are useful for the treatment or prophylaxis of disorders related to the MCH1R receptor and for modulation of apparity.

appetite.
REFERENCE COUNT: THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

SOURCE: DOCUMENT TYPE:	English	
	KIND DATE APPLICATION NO.	
	A1 20050609 WO 2004-US39020	
	AM, AT, AU, AZ, BA, BB, BG, BR, BW,	
CN, CO, CR,	CU, CZ, DE, DK, DM, DZ, EC, EE, EG,	ES, FI, GB, GD,
GE, GH, GM,	HR, HU, ID, IL, IN, IS, JP, KE, KG,	KP, KR, KZ, LC,
LK, LR, LS,	LT, LU, LV, MA, MD, MG, MK, MN, MW,	MX, MZ, NA, NI,
	PG, PH, PL, PT, RO, RU, SC, SD, SE,	
	TR, TT, TZ, UA, UG, US, UZ, VC, VN,	
	KE, LS, MW, MZ, NA, SD, SL, SZ, TZ,	
	K2, MD, RU, TJ, TM, AT, BE, BG, CH,	
	FR, GB, GR, HU, IE, IS, IT, LU, MC,	
	TR, BF, BJ, CF, CG, CI, CM, GA, GN,	
		GQ, GW, ML, MK,
NE, SN, TD,		
US 2005192297		
PRIORITY APPLN. INFO.:	US 2003-523336P	P 20031119

US 2003-524492P OTHER SOURCE(S): MARPAT 143:43903

L10 ANSWER 6 OF 41 HCAPLUS COPYRIGHT 2006 ACS on STN

AB Title compds. [I: Rl = (substituted) aralkyl, heteroarylalkyl, aryl, heteroaryl, cycloalkyl, heterocycloalkyl, cycloalkylalkyl, alkenyl, alkynyl, alkyl: R2 = H, (substituted) aralkyl, heteroarylalkyl, alkoxy, alkylamino, dialkylamino, aryl, heteroaryl, heterocyclyl, cycloalkyl, heterocycloalkyl, cycloalkylalkyl, alkenyl, alkynyl, alkyl: R3, R4, R6 = H, Cl, F, Br, iodo, OH, NHZ, cyano, NOZ, (substituted) alkoxy, alkyl: R31 = H, (substituted) alkyl, aryl, alkenyl, alkynyl, cycloalkyl, heteroaryl, heterocyclyl, heterocyclylalkyl, aralkyl, heteroarylalkyl, cycloalkylalkyl; Z = (substituted) 3-oxopiperazinyl: and tautomers), were prepared Thus, title compound (II) (preparation via coupling of 6-methylpiperazin-2-one with the corresponding quinazolinylthiourea derivative in the presence of polymer-supported carbodimide) showed a plasma half life of 1.9 h in mice.

REFERRNCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

L10 ANSWER 7 OF 41 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
-1-yl]-1-[15-(5-t-butanesulfinamido)-3-methylbutyl]-5trifluoromethylbenzene (prepn. given) with (2R)-3-(4-chlorophenyl)-2methylpropionic acid followed by deprotection and amidation with
BOC-B-alanine. Pharmaceutical compns. contg. a compd. of structure
(I), as well as methods relating to the use thereof, are also disclosed.

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LIO ANSWER 7 OF 41 HCAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
171TLE:
2005:409504 HCAPLUS
142:463764
Preparation of piperaxinyl carboxamide and related cyclic homologs as ligands of malancoertin recemptors and compositions and methods related thereto Chen. Chen. Tran. Joe Ahn. Tucci, Fabio C.; Jiang, Wanlong; Chen, Wei-Chuan C.
PATENT ASSIGNEE(5):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
   DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                                                                                                                                                                                                                                              APPLICATION NO.
                                   PATENT NO.
                                                                                                                                                             KIND
PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2005042516 A3 20050512 WO 2004-US34951 20041022

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, NN, MM, MX, MZ, NA, NI, NO, NZ, OM, PG, FH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TM, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, RW: BW, GH, GM, KE, LS, MM, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AX, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, TE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2005119252 A1 20050602 US 2004-971732 20041022

PRIORITY APPLN. INFO.:
                                                                                                                                                        MARPAT 142:463764
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Title compds. I [Ar = (un)substituted-aryl, -heteroaryl; X, Y, Z and U independently = N or CH with provisions: R1 = R6(CR1aR1b)q, wherein R1a and R1b independently = H, (un)substituted-alkyl, -aryl, etc., or taken together form a (un)substituted homocycle; R2 = at each occurrence independently equal to (un)substituted alkyl: R3 = at each occurrence independently equal to OH, halo, CN, NO2, etc.; R4 at each occurrence independently equal to H, Me, OH, halo, (un)substituted heterocycle,

R5 at each occurrence independently equal to H or Me; R6 = imidazolyl, triazolyl, oxazolyl, etc.: m = 0-2; n = 0-4; p = 0-4; q = 0-4], and pharmaceutically acceptable salts thereof, are prepared and disclosed as ligands of melanocortin receptors (no data). Thus, e.g., II was prepared via amidation of 2-[piperarin

LIO ANSWER 8 OF 41 HCAPLUS COPYRIGHT 2006 ACS ON STN ACCESSION NUMBER: 2005:395265 HCAPLUS DOCUMENT NUMBER: 142:463753 TITLE: Preparation of preparation of

LACEMUM 142:463753
Preparation of piperasinyl carboxamide and related cyclic homologs as ligands of melanocortin receptors and compositions and methods related thereto Chen, Chen: Tran, Joe Ahn: Tucci, Fabio C.; Chen, Wei-Chuan C.; Jiang, Wanlong; Marinkovic, Dragan: Arellano, Melissa: White, Nicole Neurocrine Biosciences, Inc., USA PCT Int. Appl., 166 pp.
CODEN: PIXXD2
Patent INVENTOR (S):

PATENT ASSIGNEE (S): SOURCE:

DOCUMENT TYPE: Patent English FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EZ, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, KS, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RN: BM, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SUS 2005192286 Al 20050901 US 2004-92064 SN, T US 2005192286 US 2004-972064 US 2003-513626P Al 20050901 PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 142:463753

L10 ANSWER 8 OF 41 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

Title compds. I (A = cycloalkyl, aryl, or heteroaryl; X1 = NH, CO, O,

etc.: X2 and X3 independently = NH, O, CO, N-alkyl, etc: X4 = (un)substituted methylene: R1 = imidazolyl, triazolyl, oxazolyl, etc.: R2 = (un)substituted alkyl: R3 = (un)substituted-aryl or -heteroaryl: R4 = OH, halo, CN, NO2, etc.: m and p independently = 0-2; n and q independently = 0-4], and pharmaceutically acceptable salts thereof, are prepared and disclosed as ligands of mmlanocortin receptors (no data). Thus, e.g., II was prepared by acylation of 2-(1-piperasinyl)-1-[13-(5-t-butanesulfinamido)-3-methylbutyl)-5-trifluoromethylbenzene with 1-BOC-4-(4-methoxyphenyl)pyrrolidine-3-carboxylic acid followed by deprotection and N-alkylation with tanone.

Pharmaceutical compns. containing I, as well as methods relating to the

use thereof, are also disclosed.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

L10 ANSWER 9 OF 41 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 2005:48730 HCAPLUS DOCUMENT NUMBER: 142:273328

TITLE:

AUTHOR (S):

142:273328

Metabolic Activation of a 1,3-Disubstituted
Piperasine Derivative: Evidence for a Novel
Ring Contraction to an Imidazoline
Doss, George A.: Miller, Randall R.: Zhang, Zhoupeng;
Teffera, Vohannes: Nargund, Ravi P.: Palucki, Brenda;
Park, Min K.: Tang, Yui S.: Evans, David C.: Beillie,
Thomas A.: Stearns, Ralph A.
Departments of Drug Metabolism and Medicinal
Chemistry, Merck Research Laboratories, Rahway, NJ,
07063, USB.

CORPORATE SOURCE:

Chemical Research in Toxicology (2005), 18(2), SOURCE: 271-276

CODEN: CRTOEC; ISSN: 0893-228X American Chemical Society Journal PUBLISHER:

DOCUMENT TYPE:

MEANT TYPE: JOURNAL MURGE: English English ME243 (a 1,3-disubstituted piperaxine) is a new, potent, and selective melanocortin receptor subtype-4 agonist with potential application in the treatment of obesity and/or erectile dysfunction. ME243 was observed to covalently bind extensively

liver microsomal proteins from rats and humans. In the presence of glutathione, two thioether adducts were detected in liver microsomal incubations by radiochromatog, and LC/MS/MS anal. These adducts were

formed when bile duct-cannulated rats were dosed with MB243. The two adducts were isolated, and their structures were determined by accurate $\frac{1}{2}$

adducts were isolated, and their structures were determined by accurate
mass

MS/MS and NMR analyses. The proposed structures resulted from a novel
contraction of the piperaxime ring to yield a substituted
imidazoline. A mechanism is proposed, which involves an initial six
electron oxidation of the piperaxime ring to form a reactive
intermediate, which is trapped by glutathione. Hydrolysis of the
glutamic
acid residue followed by internal aminolysis by the cysteine amino group
resulted in opening of the piperaxime ring, which is followed by
ring closure to an imidazoline. The resulting cysteinyl-glycine
conjugate
underwent subsequent hydrolysis of the glycine residue. Understanding of
the mechanism of bioactivation led to the design of MB243 analogs that
exhibited reduced covalent protein binding.

REFERENCE COUNT:

22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR
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RECORD. ALL CITATIONS AVAILABLE TO THE PROPERTY COUNTY OF THE PROPERTY CANALLABLE FOR

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L10 ANSWER 10 OF 41 HCAPLUS COPYRIGHT 2006 ACS ON STN ACCESSION NUMBER: 2004:965987 HCAPLUS DOCUMENT NUMBER: 141:411221 TITLE: Preparation of the state of the st

ocortin receptor-specific

INVENTOR (S):

compounds Sharma, Shubh D.; Shi, Yi-qun; Rajpurohit, Ramesh;

Zhijun; Purma, Papireddy; Shadiack, Annette M.; Burris, Kevin D. Palatin Technologies, Inc., USA U.S. Pat. Appl. Publ., 69 pp. CODEN: USXXCO

PATENT ASSIGNEE(S):

DOCUMENT TYPE: Patent English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. APPLICATION NO. KIND DATE DATE A1 20041111 W0 2004-837519
A1 20041118 W0 2004-VS13803
AM, AT, AU, AZ, BA, BB, BG, BR, BW, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, HR, HU, ID, IL, IN, IS, JP, KE, KG, LT, LU, LV, MA, MD, MG, MK, MN, MW, PG, PH, PL, PT, RO, RU, SC, SD, SE, TR, TT, TZ, UA, UG, US, UZ, VC, VN, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, FR, GB, GR, HU, IE, IT, LU, MC, NL, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, US 2004224957 WO 2004098602 WO 2004098602

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EE, ES, FI,
SI, SK, TR,
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EP 1622618
R: AT, BE, CK, BY, ES, KP, MX, SG, YU, UG, CY, PL, GW, A1 20060208 EP 2004-751262 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, US 2005130988 US 2005124636 US 2005176728 PRIORITY APPLN. INFO.: 20050609 20050811 US 2001-311404P P 20010810 WO 2002-US25574 A2 20020812 US 2003-474497P P 20030530 US 2004-536606P 20040114 US 2004-538100P P 20040121 US 2004-761889 A2 20040121 US 2004-762079 A2 20040121

US 2004-559741P

P 20040405

L10 ANSWER 10 OF 41 HCAPLUS COPYRIGHT 2006 ACS on STN US 2004-563739P

WO 2004-US13803 W 20040503

OTHER SOURCE(S): MARPAT 141:411221

The invention relates to amino acid-derived piperasine compds. I (X is CH2. CO or CS: R1 is -L1-0; one of R2s and R2b is -L2-W and the other is H; R3 is -L3- ϕ ; L1 is a bond or a linker unit comprising from

to eight backbone atoms selected from carbon, sulfur, oxygen or nitrogen: J is a ring structure, e.g., an (un)substituted aromatic or non-aromatic carbocyclic ring: L2 is a bond or (CH2)1-6: W is a heteroatom unit with

least one cationic center, hydrogen bond donor or acceptor (at least one heteroatom is nitrogen or oxygen); L3 is a bond or a linker unit comprising from one to nine backbone atoms selected from carbon, sulfur, oxygen or nitrogen; Q is (un) substituted Ph or naphthyl; one or two of R4a, R4b, R5a and R5b are independently -L2-W or an aliphatic chain and

others are H, provided that at least one of R4a and R4b and at least one of R5a and R5b is H), including enantiomers, stereoisomers, diastereoisomers or pharmaceutically-acceptable salts, which bind with high affinity to one or more melanocortin receptors (MCR) and may be employed for treatment of melanocortin receptor-associated conditions or disorders. Thus, piperazine derivative II was prepared via reactions of 2-naphthylacetic

L10 ANSWER 10 OF 41 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued) acid, (R)-(-)-2-amino-1-propanol, Fmoc-1-Arg(Boc)2-OH (Fmoc = fluorenylmethoxycarbonyl, Boc = tert-butoxycarbonyl), and Boc-0-4-chloro-2-methyl-L-phenylalanine. Compd. II was shown to be a partial agonist as to MC4-R and in rats caused a decrease in food intake (administration 2 h prior to food presentation) and induced penile erection at 0.3-30 µg/Kg.

L10 ANSWER 11 OF 41 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:964812 HCAPLUS
TITLE: 141:411215
Preparation of amino acid heterocyclyl amides as modulators of the melanocortin-4 receptor
INVENTOR(S): Chaturvedula, Prasad V.; Luo, Guanglin; Vig, Shikha; Poindexter, Graham S.; Beno, Brett R.
USA
PATENT ASSIGNEE(S): US. Pat. Appl. Publ., 31 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent LANGUAGE: English
FAMILU ACC. NUM. COUNT: 1
PATENT INFORMATION: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 2004224901 PRIORITY APPLN. INFO.: A1 20041111 US 2004-813870 US 2003-465552P 20040330

OTHER SOURCE(S): MARPAT 141:411215

Novel azetidinyl and pyrrolidinyl compds. I [A is H, alkyl, aminoalkyl, optionally N-alkylated azetidinyl, pyrrolidinyl, piperidinyl, piperaminyl, (thio)morpholinyl or (iso)quinolinyl; Rl is (un)substituted Ph, naphthyl, benzofuranyl, benzothienyl or indolyl; R2

alkyl or cycloalkyl; m is 0-3; n is 1 or 2; X is CO or SO2; B is alkyl, cycloalkyl, cycloalkylmethyl, methoxy- or phenoxyalkyl, (un)substituted

L10 ANSWER 11 OF 41 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
Ph. naphthyl, pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, furanyl,
thienyl, pyrrolyl, oxazolyl, isoxazolyl, benzfuranyl, benzthienyl,
indolyl, benzoxazolyl or indazolyl] and their pharmaceutically-acceptable
salts are ligands of melanocortin-4 receptors (MC4R)
and are useful for treating conditions responsive to the modulation of
melanocortin-4 receptors such as obesity,
diabetes, and sexual dysfunction. Thus, 4-chlorophenylalanyl azetidine
deriv. II was prepd. via acylation reactions and showed IC50 < 250 nM in
the MC4R binding assay.

L10 ANSWER 12 OF 41 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:905618 HCAPLUS

DOCUMENT NUMBER: 41:379938

Preparation of pyrazolo[4,3-d]pyrimidine and pyrazolo[3,4-c]pyridine compounds as cannabinoid receptor ligands

INVENTOR(S): Griffith, David A.: Hammond, Marlys

PATENT ASSIGNEE(S): Pfizer Inc., USA

SOURCE: USX.CO

DOCUMENT TYPE: Patent

LANGUAGE: Patent

English

FAMILY ACC. NUM. COUNT: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

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											WO :	2004-	IB14	18		W 2	0040	420

OTHER SOURCE(S): MARPAT 141:379938

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(Continued)
L10 ANSWER 12 OF 41 HCAPLUS COPYRIGHT 2006 ACS on STN
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AB The title compds. I (A = N, CR2 (wherein R2 = H, alkyl, haloalkyl, alkoxy); R0, R1 = (un)substituted (hetero)aryl; R3 = H, alkyl, haloalkyl, alkoxy; R4 = (un)substituted pyrrolidino, piperidino, piperaxino, etc.; that act as cannabinoid receptor ligands and therefore are useful in the treatment of diseases linked to the mediation of the cannabinoid receptors in animals, were prepared Thus, reacting 7-chloro3-(4-chlorophenyl)-2-(2,4-dichlorophenyl)-2H-pyrazolo[3,4-c]pyridine with 4-ethylaminopiperidine4-carboxylic acid amide (prepns. given) afforded 78% II. All the exemplified compds. (over 190) were tested in the CB-1 receptor binding assay and showed a range of binding activities from 0.2 nM to 1.6 µM. The pharmaceutical composition comprising the compound I is claimed.

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L10 ANSWER 13 OF 41 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
141:295868
Preparation of amides derived from substituted piperidinealkylamines as malanocortin-4 receptor antagonists
SOURCE:
SOURCE:
PATENT ASSIGNEE(S):
SOURCE:
POT Int. Appl., 155 pp.
CODENT TYPE:
LANGUAGE:
FAMILU ACC. NUM. COUNT:
FAMILU ACC. NUM. COUNT:
PATENT INFORMATION:
    FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                                                                                                                                                                              APPLICATION NO.
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                          PATENT NO.
PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2004083208 A1 20040930 W0 2004-EP2896 20040319

W1 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MZ, NA, NI, NO, NZ, OM, FG, FM, FE, FY, RO, RU, SC, SD, SS, SS, GS, KS, LS, SY, TJ, TM, TM, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, RW: BM, GH, GH, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PI, PT, RO, FS, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

ET 1468999 A1 20041020 EP 2003-6256

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK, CA 2519440 A2 20040319

ER: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, PRIORITY APPLN. INFO::

W0 2004-EP2896 W 20040319
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   OTHER SOURCE(S):
                                                                                                                     MARPAT 141:295868
   * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
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Compds. A(CH2)mCHR1(CH2)nR2 [A = 4-substituted piperidinyl, (un)substituted 4-arylazaheterocyclyl, spiropiperidinyl, or oxotetrahydropyrazolopyridinyl; R1 = (un)substituted aralkyl, heteroaralkyl; R2 = R3C(:O)NN, (un)substituted oxoquinolinecarbonylamino or chromonecarbonylamino, piperasinyl, cycloalkylalkylcarbonylamino, aminoalkylamino; R3 = (un)substituted

L10 ANSWER 13 OF 41 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued) aryl-fused azaheterocyclyl or azaheterocyclylalkyl, fused heterocyclylalkyl] (I), particularly N-acyl acarylmethyl)piperidinealkylamines such as II-sHCl or arylpiperidinealkylamines such as II-sHCl or arylpiperidineethylpiperazines such as III, are prepd. as malanocortin-4 receptor antagonists for the treatment of disorders such as cancer cachexia, muscle wasting, anorexia, anxiety, depression, obesity, diabetes mellitus, male or female sexual dysfunction, or erectile dysfunction. Reductive amination of Boc L-4-chlorophenylalaninal with N-tert-Bu 4-cyclohexyl-4-piperidinecarboxamide yields a piperidineethylamine which is deprotected with trifluoroacetic acid and converted to the hydrochloride salt followed

collowed

by coupling of the free amine with (R)-Boc-1,2,3,4tetrahydroisoguinolinecarboxylic acid and deprotection yields II-xHCl
(no data on intermediates). II binds to the human melanocortin

-4 receptor in vitro with an ICSO value of 0.70 µM but does
not activate the receptor; in rats, II increases spontaneous
feeding significantly at dose of 10 mg/kg. Human melanocortin

-4 receptor antagonist and activation activities and the
effectiveness of compds. at stimulating spontaneous feeding in rats are
given for some example compds.

REFERENCE COUNT:

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L10 ANSWER 14 OF 41 HCAPLUS COPYRIGHT 2006 ACS ON STN ACCESSION NUMBER: 2004:772652 HCAPLUS DOCUMENT NUMBER: 141:261061 Preparation of suberitured and accessions accessions and accessions and accessions and accessions accessions accessions and accessions accessions accessions accessions accessions and accessions accession accessions accessions accessions accessions accessions accession accession accessions accessions accession 
                                                                                                                                                                                                                                                                                             141:261061
Preparation of substituted piperidine and piperatine amino acid derivatives as melanocortin-4 receptor modulators
Soeberdt, Michael; Weyermann, Philipp; Von Sprecher,
  INVENTOR (S):
                                                                                                                                                                                                                                                                                       Andreas
Myocontract Ltd., Switz.
Eur. Pat. Appl., 66 pp.
CODEN: EPXXDW
Patent
English
     PATENT ASSIGNEE (S):
     SOURCE:
DOCUMENT TYPE:
LANGUAGE:
     FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
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OTHER SOURCE(S): MARPAT 141:261061

L10 ANSWER 14 OF 41 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

AB The invention relates to novel substituted piperidine and piperasine derivs. A-CO(CH2)mCH(CH2-Ar)(CH2)nNHCORI [Ar is (un)substituted aryl or heteroaryl; Rl is (un)substituted chromone-2-yl, 3-aminochromone-2-yl or 4-oxoquinolin-3-yl; A is substituted
1-piperidinyl or 1-piperasinyl; m, n are 0-2] or their pharmaceutically-acceptable salts for use as melanocortin-4 receptor (MC-4R) modulators. MC-4R agonists of the invention can be used for the treatment of disorders and diseases such as obseity, diabetes, and sexual dysfunction, whereas the MC-4R antagonists are useful for the treatment of cancer cachexia, muscle wasting, anorexia, anxiety, depression, etc. Thus, I was prepared via coupling reactions of Boc-D-4-chlorophenylalanine (Boc = tert-butoxycarbonyl), 1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidine) monohydrochloride and chromone-2-carboxylic acid.

L10 ANSWER 15 OF 41 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued) obesity, diabetes, and sexual dysfunction, whereas the MC-4R antagonists are useful for the treatment of cancer cachexia, muscle wasting, anorexia, anxiety, depression, etc. Thus, peptide II was prepd. via reactions of 2-bromobenzyl bromide, 2-pyrrolidinone, 1-Boc-4-(4,4,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-3,6-dihydro-1(2H)pyridine (Boc = tert-butoxycarbonyl), Boc-L-4-chlorophenylalanine and

(R)-2-Boc-1,2,3,4-tetrahydroquinoline-3-carboxylic acid.

03/12/2006

LIO ANSWER 15 OF 41 HCAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
141:261072
Preparation of substituted piperidine and piperarine amino acid derivatives as malancoortin-4 receptor modulators

NVENTOR(S):
SOURCE:
PATENT ASSIGNEE(S):
SOURCE:
PATENT TYPE:
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
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FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

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			IE.	SI,	LT.	LV.	FI.	RO.	MK.	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK	
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WO 2004-EP2908

W 20040319

OTHER SOURCE(S): MARPAT 141:261072

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

The invention relates to novel substituted piperidine and piperaxine derivs. I [Ar is (un)substituted aryl or heteroaryl; Rl is H, OH, cyano, nitro, halo, alkyl, alkoxy or haloalkyl; R2 is heterocyclyl: X is CH or N; m is 0-3; n is 1-4; p, p' are 0-2; q is 1-2] or their pharmaceutically-acceptable salts for use as mmalaneoertin -4 receptor (MC-4R) modulators. MC-4R agonists of the invention can be used for the treatment of disorders and diseases such as

Page 20

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---Logging off of STN---

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Executing the logoff script...

=> LOG Y

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FULL ESTIMATED COST	116.14	116.79
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STN INTERNATIONAL LOGOFF AT 15:50:45 ON 10 MAR 2006

Connecting via Winsock to STN

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Welcome to STN International! Enter x:x
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LOGINID:ssptabf1626

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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                     Welcome to STN International * * * * * * * * * *
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                 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2
                 "Ask CAS" for self-help around the clock
NEWS 3 DEC 05
                 CASREACT(R) - Over 10 million reactions available
NEWS 4 DEC 14
                 2006 MeSH terms loaded in MEDLINE/LMEDLINE
NEWS 5 DEC 14 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER
NEWS 6 DEC 14 CA/CAplus to be enhanced with updated IPC codes
NEWS
     7 DEC 21
                IPC search and display fields enhanced in CA/CAplus with the
                 IPC reform
         DEC 23 New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/
NEWS 8
                 USPAT2
NEWS 9
         JAN 13
                 IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS 10 JAN 13
                 New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to
                 INPADOC
NEWS 11 JAN 17
                 Pre-1988 INPI data added to MARPAT
NEWS 12 JAN 17
                IPC 8 in the WPI family of databases including WPIFV
NEWS 13 JAN 30 Saved answer limit increased
NEWS 14 JAN 31 Monthly current-awareness alert (SDI) frequency
                 added to TULSA
NEWS 15 FEB 21 STN AnaVist, Version 1.1, lets you share your STN AnaVist
                 visualization results
NEWS 16 FEB 22
                 Status of current WO (PCT) information on STN
NEWS 17 FEB 22
                 The IPC thesaurus added to additional patent databases on STN
NEWS 18 FEB 22 Updates in EPFULL; IPC 8 enhancements added
NEWS 19 FEB 27 New STN AnaVist pricing effective March 1, 2006
NEWS 20 FEB 28 MEDLINE/LMEDLINE reload improves functionality
NEWS 21 FEB 28 TOXCENTER reloaded with enhancements
NEWS 22 FEB 28 REGISTRY/ZREGISTRY enhanced with more experimental spectral
                 property data
NEWS 23 MAR 01
                INSPEC reloaded and enhanced
NEWS 24 MAR 03 Updates in PATDPA; addition of IPC 8 data without attributes
NEWS 25 MAR 08 X.25 communication option no longer available after June 2006
NEWS EXPRESS
             FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
              CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
              V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT
              http://download.cas.org/express/v8.0-Discover/
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              STN Operating Hours Plus Help Desk Availability
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              Direct Dial and Telecommunication Network Access to STN
NEWS PHONE
NEWS WWW
              CAS World Wide Web Site (general information)
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FILE 'HOME' ENTERED AT 13:59:06 ON 10 MAR 2006

=> s 11

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=> file reg
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 13:59:23 ON 10 MAR 2006 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2006 American Chemical Society (ACS)

Property values tagged with IC are from the ${\tt ZIC/VINITI}$ data file provided by InfoChem.

STRUCTURE FILE UPDATES: 9 MAR 2006 HIGHEST RN 876338-69-1 DICTIONARY FILE UPDATES: 9 MAR 2006 HIGHEST RN 876338-69-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting ${\tt SmartSELECT}$ searches.

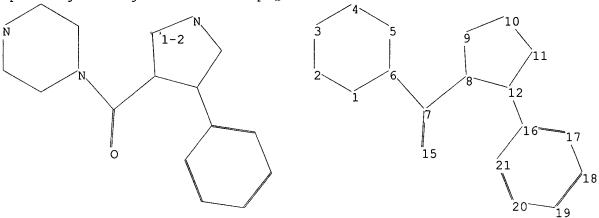
Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

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Uploading C:\Program Files\Stnexp\Queries\10788859\2AOM\a.str



chain nodes :

7 15

ring nodes :

1 2 3 4 5 6 8 9 10 11 12 16 17 18 19 20 21

chain bonds :

6-7 7-8 7-15 12-16

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-12 9-10 10-11 11-12 16-17 16-21 17-18

18-19 19-20 20-21

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 6-7 7-15 8-9 8-12 9-10 10-11 11-12

exact bonds :

7-8 12-16

normalized bonds :

16-17 16-21 17-18 18-19 19-20 20-21

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom

L1 STRUCTURE UPLOADED

=> s 11

SAMPLE SEARCH INITIATED 13:59:38 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 169 TO ITERATE

100.0% PROCESSED 169 ITERATIONS

19 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 2601 TO 4159 PROJECTED ANSWERS: 119 TO 641

L2 19 SEA SSS SAM L1

=> s l1 full FULL SEARCH INITIATED 13:59:41 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 4119 TO ITERATE

100.0% PROCESSED 4119 ITERATIONS 539 ANSWERS

SEARCH TIME: 00.00.01

L3 539 SEA SSS FUL L1

=> file hcaplus COST IN U.S. DOLLARS

COST IN U.S. DOLLARS
SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST
166.94
167.15

FILE 'HCAPLUS' ENTERED AT 13:59:45 ON 10 MAR 2006 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 10 Mar 2006 VOL 144 ISS 12 FILE LAST UPDATED: 9 Mar 2006 (20060309/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13 L4 17 L3

=> d ibib 1-17

L4 ANSWER 1 OF 17 HCAPLUS COPYRIGHT 2006 ACS ON STN ACCESSION NUMBER: 2005:1350335 HCAPLUS
DOCUMENT NUMBER: 144:88307 ANSWER 2 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN SSION NUMBER: 2005:1290080 HCAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: DOCUMENT NUMBER: 144:36374
Preparation of aromatic biaryls, in particular
(piperazin-1-yl) phenyl(pyridinyl/pyrimidinyl)
methanones, as inhibitors of tubulin polymerization
and their compositions for treatment of cancer
Mailliet, Patrick; Thompson, Fablenne: Tiraboschi, 144:36374 Preparation of quinazoline derivatives as CCR4 TITLE: function controllers Kawano, Noriyuki; Ishikawa, Noriko; Kaizawa, INVENTOR (S): Hiroyuki: Masuda, Naovuki: Hamaguchi, Wataru: Koganemaru. INVENTOR (S): Yohei: Gilles Aventis Pharma SA, Fr. Fr. Demande, 26 pp. CODEN: FRXXBL Patent Kato, Koji; Miyazaki, Takahiro Astellas Pharma Inc., Japan PCT Int. Appl., 61 pp. CODEN: PIXXD2 PATENT ASSIGNEE(S): PATENT ASSIGNEE(S): DOCUMENT TYPE: DOCUMENT TYPE: LANGUAGE: ratent Japanese FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: 2871157 A1 20051209 FR 2004-6043 20040604
2871057 A1 20061012 W0 2005-FR1336 20050601
W1 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ,
LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MK, MX, NA,
NG, NI, NO, NZ, OH, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,
SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
ZA, ZM, ZW
RN: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF,
CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GH,
KE, LS, MM, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG,
KZ, MD, RU, TJ, TM | No. PATENT NO. PATENT NO. FR 2871157 WO 2006003277 WO 2005123697 PRIORITY APPLN. PRIORITY APPLN MARPAT 144:36374
9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE OTHER SOURCE(S): REFERENCE COUNT: REFERENCE COUNT: FORMAT FORMAT

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L4 ANSWER 3 OF 17 HCAPLUS COPYRIGHT 2006 ACS ON STN ACCESSION NUMBER: 2005:39525 HCAPLUS DOCUMENT NUMBER: 142:463753 TITLE: Preparation
                                                                                      Preparation of piperazinyl carboxamide and related cyclic homologs as ligands of melanocortin receptors and compositions and methods related thereto Chen, Chen; Tran, Joe Ahn; Tucci, Fabio C.; Chen, Wei-Chuan C.; Jiang, Wanlong; Marinkovic, Dragan; Arellano, Melissa; White, Nicole Neurocrine Biosciences, Inc., USA PCT Int. Appl., 166 pp.
CODEN: PIXXD2
Patent
INVENTOR (S):
PATENT ASSIGNEE(S):
SOURCE:
                                                                                        Patent
English
DOCUMENT TYPE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                  PATENT NO.
                                                                                                             DATE
                                                                                                                                                            APPLICATION NO.
                                                                                     A1 20050506 WO 2004-US35343
AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, LT, LU, LY, MA, MD, MG, MK, MM, MX, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
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TJ, TM, TN,
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US 2005192286
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SK, SI, SY,
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ZM, ZW, AM,
CZ, DE, DK,
PT, RO, SE,
ML, MR, NE,
                  SN, T
US 2005192286
                                                                                                                                                           US 2004-972064
US 2003-513626P
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                                                                                                               20050901
                                                                                                                                                                                                                                             20041022
20031022
PRIORITY APPLN. INFO.:
                                                                                        MARPAT 142:463753
5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
OTHER SOURCE(S):
REFERENCE COUNT:
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FORMAT

LANGUAG FAMILY PATENT	GE: ACC.	NUM.		NT:	Eng. 8	lish												
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	3 2004	2249	57		Al			1111			2004-	8375	19			20040		
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E	1622		,		A1		2006	0208		EP 2	2004-	7512	62			20040	1503	
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HR																		
	2005				A1		2005				2005-					20050		
	3 2005				A1			0609			2005-					20050		
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										us a	2004-	5463	93P		₽	20040	219	
										us a	2001-	3114	04P		P	2001	810	
										wo 2	2002-	US25	574		A2	20020	812	
										us a	2003-	4744	97P		P	20030	530	
										us a	2004-	5366	06P		P	20040	114	
										vs :	2004-	5381	00P		P	2004	121	
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										us :	2004-	7620	79		A2	2004	121	
										us :	2004-	5597	41P		P	2004	405	
										us :	2004-	5637	39P		₽	2004	419	
															1	Pac	6	

141:411221
Preparation of piperazine melanocortin
receptor-specific compounds
Sharma, Shubh D.; Shi, Yi-qun; Rajpurohit, Ramesh;

Zhijun; Purma, Papireddy; Shadiack, Annette M.; Burris, Kevin D. Palatin Technologies, Inc., USA U.S. Pat. Appl. Publ., 69 pp. CODEN: USXXCO

L4 ANSWER 4 OF 17 HCAPLUS COPYRIGHT 2006 ACS ON STN ACCESSION NUMBER: 2004:965987 HCAPLUS DOCUMENT NUMBER: 141:411221 Preparation of piperazine mela:

Patent English

INVENTOR (S):

DOCUMENT TYPE:

PATENT ASSIGNEE(S):

L4 ANSWER 4 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
US 2004-837519 A 20040430

WO 2004-US13803 W 20040503

OTHER SOURCE(S): MARPAT 141:411221

L4 ANSWER 5 OF 17 HCAPLUS COPYRIGHT 2006 ACS ON STN ACCESSION NUMBER: 2004:756685 HCAPLUS DOCUMENT NUMBER: 141:277640 TITLE: Preparation of acylated piperazine derivatives as melanocortin -4 receptor agonists for the treatment of obesity, diabetes mellitus and sexual dysfunction. pharmaceutical compositions thereof pharmaceutical compositions thereof
Bakshi, Raman K.; Guo, Liangqin: Hong, Qingmei;
Nargund, Ravi P.; Pollard, Patrick G.; Sebhat, Iyassu
K.; Ujjainwalla, Feroze; Ye, Zhixiong
Merck & Co., Inc., USA
PCT Int. Appl., 187 pp.
CODEN: PIXXD2
Patent INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: DATE PATENT NO. KIND APPLICATION NO. DATE WO 2004078717
W: AE, AE, AG, BR, BR, CU, CU, C2, ES, FI, FI, IS, JP, JP, LK, LR, LS, MZ, MZ, MZ, NA, BG, CH, CY, GC, GW, ML, US 2004204398
RITY APPLN. INFO: WO 2004078717 US 2004-788859 US 2003-451502P 20040227 P 20030303 PRIORITY APPLN. US 2003-515943P P 20031030 MARPAT 141:277640
3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE OTHER SOURCE(S): REFERENCE COUNT:

FORMAT

L4 ANSWER 6 OF 17 HCAPLUS COPYRIGHT 2006 ACS ON STN ACCESSION NUMBER: 2004:756684 HCAPLUS DOCUMENT NUMBER: 141:277639 Preparation of acylated piperazine derivatives as TITLE: melanocortin-4 receptor agonists for the treatment of obesity, diabetes mellitus and sexual dysfunction, and pharmaceutical compositions thereof pharmaceutical compositions thereof
Bakshi, Raman K.; Hong, Qinqmei; Nargund, Ravi P.;
Pollard, Patrick G.; Sebhat, Iyassu K.; Ujjainwalla,
Feroze; Ye, Zhixiong
Merck & Co. Inc., USA
PCT Int. Appl., 76 pp.
CODEN: PIXXD2
Patent INVENTOR(S): PATENT ASSIGNEE(S): DOCUMENT TYPE: FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE A1 20040916 WO 2004-US5982 20040227 WO 2004078716 US 2004-788859 US 2003-451502P 20040227 P 20030303 PRIORITY APPLN. INFO.: P 20031030 US 2003-515943P OTHER SOURCE(S): REFERENCE COUNT: MARPAT 141:277639 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE L4 ANSWER 7 OF 17 HCAPLUS COPYRIGHT 2006 ACS ON STN ACCESSION NUMBER: 2004:652533 HCAPLUS DOCUMENT NUMBER: 141:191073 TITLE: PROPAGATION OF THE PR 141:191073
Preparation of piperazines as melanocortin-specific agonists, antagonists, or mixed agonists and antagonists
Sharma, Shubh D.; Shi, Yi-qun; Wu, Zhijun; INVENTOR (S): Raipurohit, Ramesh
Palatin Technologies, Inc., USA
U.S. Pat. Appl. Publ., 70 pp., Cont.-in-part of Appl.
No. PCT/USO2/25574.
CODEN: USXXCO
Patent
English PATENT ASSIGNEE(S): DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: APPLICATION NO. PATENT NO. KIND DATE DATE US 2005-36282 US 2005-40838 US 2005-99814 US 2001-311404P US 2005124636 US 2005176728 PRIORITY APPLN. INFO.: US 2003-467442P US 2004-538100P US 2004-761889 A2 20040121

03/12/2006

FORMAT

L4 ANSWER 7 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
US 2004-762079 A2 20040121

P 20040219 US 2004-546393P US 2004-559741P P 20040405 US 2004-563739P P 20040419 US 2004-837519 A2 20040430

OTHER SOURCE(S) . MARPAT 141:191073 L4 ANSWER 8 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 2003:221465 HCAPLUS DOCUMENT NUMBER: 138:255249 TITLE: Preparation of piperazine and the state of the st

Preparation of piperazine and homopiperazine

useful in the treatment of thrombosis and to inhibit ADP-mediated platelet aggregation Levy, Daniel E.; Smyth, Mark S.; Scarborough, Robert INVENTOR(S):

Levy, Daniei E., Samyan, M.
M.
Millennium Pharmaceuticals, Inc., USA
PCT Int. Appl., 260 pp.
CODEN: PIXXD2
Patent
English PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
WO 2003022214	A2 20030320	WO 2002-US28618	20020906
WO 2003022214	A3 20040325		
W: AE, AG, AL,	AM, AT, AU, AZ,	BA, BB, BG, BR, BY, E	3Z, CA, CH, CN,
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US 2003153556	A1 20030814	US 2002-237153	20020906
PRIORITY APPLN. INFO.:		US 2001-317192P	P 20010906

OTHER SOURCE(S): MARPAT 138:255249

L4 ANSWER 9 OF 17
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1978:152411 HCAPLUS
88:152411 HCAPLUS
171LE:
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1NVENTOR(s)

Japanese 1 LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. APPLICATION NO. DATE KIND DATE JP 52156859 PRIORITY APPLN. INFO.: A2 19771227

L4 ANSWER 10 OF 17
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11711E:
1NVENTOR(S):
SOURCE:

DOCUMENT TYPE:
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LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

1 TCAPENT TYPE ATTENT ASSIGNED (S):
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

DATE APPLICATION NO. KIND DATE 19750120 A 19750120 JP 51131870 PRIORITY APPLN. INFO.: A2 19761116

L4 ANSWER 11 OF 17 HCAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 1967:500020 HCAPLUS
DOCUMENT NUMBER: 67:100020
Octahydro-3-oxoindolizinecarboxylates
INVENTOR(S): McNeil Laboratories, Inc.
SOURCE: US., 6 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

APPLICATION NO. PATENT NO. DATE DATE US 3297704 19670110 US 1965-468994 19630802

L4 ANSWER 12 OF 17
ACCESSION NUMBER:
DOCUMENT NUMBER:
1171LE:
1NVENTOR(s):
SOURCE:

DOCUMENT TYPE:
LANGUAGE:
PAMILU ACC. NUM. COUNT:
PATENT INFORMATION:
1967:37950 HCAPLUS
66:37950
Indolizine derivatives
Mohibacher, Richard J.
MCNeil Laboratories, Inc.
U.S., 6 pp. Division of U.S. 3245990
CODEN: USXXAM
Patent INFORMATION:
English
1
English
1
English
1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

APPLICATION NO. PATENT NO. KIND DATE DATE US 3268535 19660823 US 1965-463926 19650614

L4 ANSWER 13 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1967:2475 HCAPLUS
DOCUMENT NUMBER: 66:2475
INVENTOR(5): Octahydro-3-oxoindolizines
INVENTOR(5): McNell Laboratories, Inc.
SOURCE: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: PAHILY ACC. NUM. COUNT: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE 19660920 US 1963-269879 19630402 US 3274202

L4 ANSWER 14 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1966:482196 HCAPLUS
DOCUMENT NUMBER: 65:82196
ORIGINAL REFERENCE NO.: 65:15351d-h,15352a-c
CITILE: OCTANATORIA-h,15352a-c
CITILE: Nohrbacher, Richard J.
PATENT ASSIGNEE(S): McNeil Laboratories, Inc.
6 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Patent
Unavailable
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

APPLICATION NO. DATE PATENT NO. DATE KIND US 3268540 PRIORITY APPLN. INFO.: 19660823 US 1965-463909 US

Page 8 03/12/2006

L4 ANSWER 15 OF 17 HCAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 1966:104086 HCAPLUS
ORIGINAL REFERENCE NO: 64:104086
TITLE: 2-(Pyrrolidino and morpholino)carbonyl-3oxocotahydroindolizines
HOMENTOR(S): HOMENTAL ASSIGNEE(S): McNeil Laboratories, Inc.
SOURCE: 6 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION: INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

L4 ANSWER 17 OF 17 HCAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 1965:462961 HCAPLUS
DOCUMENT NUMBER: 63:62961
OXCO- and hydroxyspiroindanindolizines
INVENTOR(S): Mohrbacher, Richard J.
PATENT ASSIGNEE(S): 5 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Vine Count: PATENT INFORMATION: 1

KIND DATE

19650615

PATENT NO.
US 3189611
PRIORITY APPLN. INFO.:

APPLICATION NO.

US 1963-269887 US

DATE 19630402 19630402

PATENT NO. APPLICATION NO. DATE US 3245990 PRIORITY APPLN. INFO.: 19650614 19650614 19660412 US 1965-463863 US

L4 ANSWER 16 OF 17 HCAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 1966:93375 HCAPLUS
DOCUMENT NUMBER: 64:93375 HCAPLUS
CORIGINAL REFERENCE NO: 64:97375
COTIFICE: Octahydroindolizines
INVENTOR(S): Mohracher, Richard J.
PATENT ASSIGNEE(S): MONEACHE, Richard J.
BATENT TYPE: Patent
LANGUAGE: 6ppDOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO. DATE APPLICATION NO. DATE US 3245991 PRIORITY APPLN. INFO.: US 19630402 19630402 19660412

=> d ibib hitstr 7-17

CM 1

CRN 502647-79-2 CMF C28 H35 N5 O3 S Relative stereochemistry.

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L4 ANSWER 7 OF 17
ACCESSION NUMBER: 2004:652533 HCAPLUS
DOCUMENT NUMBER: 141:191073
TITLE: Preparation of piperazines as melanocortin-specific agonists, antagonists, or mixed agonists and antagonists.

INVENTOR(S): Sharma, Shubh D.; Shi, Yi-qun; Wu, Zhijun;
                                                                                                                                                                                                                                                                                                     L4 ANSWER 7 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)
US 2004-538100P P 20040121
                                                                                                                                                                                                                                                                                                                                                                                                                                                    US 2004-761889
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A2 20040121
                                                                                                                                                                                                                                                                                                                                                                                                                                                    US 2004-762079
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A2 20040121
                                                                                Ramesh
Palatin Technologies, Inc., USA
U.S. Pat. Appl. Publ., 70 pp., Cont.-in-part of Appl.
No. PCT/US02/25574.
CODEN: USXXXCO
Patent
English
8
                                                                                                                                                                                                                                                                                                                                                                                                                                                    US 2004-546393P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    P 20040219
 PATENT ASSIGNEE(S):
SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                    US 2004-559741P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    P 20040405
                                                                                                                                                                                                                                                                                                                                                                                                                                                    US 2004-563739P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    P 20040419
 DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                    US 2004-837519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A2 20040430
                                                                                                                                                                                                                                                                                                    OTHER SOURCE(S): MARPAT 141:191073

IT 738600-02-79

RI: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
                                                                                                                                               APPLICATION NO.
              PATENT NO. KIND DATE APPLICATION NO. DATE

US 2004157264 A1 20040812 US 2004-762079 20040121

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CG, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, F1, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KR, KG, KP, KR, KZ, LC, LK, LR, UZ, VN, VU, ZA, ZW

RN: GM, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, F1, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GM, ML, MR, NE, SN, TD, GE, GH, GM, KE, LS, MM, AT, AU, AZ, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, EE, ES, F1, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, CH, CY, CZ, DE, DK, EE, ES, F1, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, CH, CY, CZ, DE, DK, EE, ES, F1, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, CH, CY, CZ, DE, DK, EE, ES, F1, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, SL, SZ, TZ, UG, ZM, ZM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, F1, FR, GB, GR, EW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, CC, EE, EG, ES, F1, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MM, MZ, NA, NI, ND, NZ, DI, TM, TN, TR, TT, TZ, UA, UG, US, UZ, CV, CN, VU, ZA, ZM, ZW

RW: BM, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZM, ZM, AZ, ZM, ZW

RW: BM, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZM, ZM, AZ, ZM, ZW

RW: BM, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZM, ZM, AM, AZ, EN, FT, FF, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, FF, FF, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, FF, FF, GF, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, US 20055130988
                 PATENT NO.
                                                                                  KIND
                                                                                                        DATE
                                                                                                                                                                                                                          DATE
                                                                                                                                                                                                                                                                                                   (Uses)
(preparation of piperazines as melanocortin-specific agonists, antagonists,
or mixed agonists and antagonists)
RN 738600-02-7 HCAPLUS
CN Piperazinone,
3-[3-[(aminoiminomethyl) amino)propyl]-4-[{4-(4-chlorophenyl)-3-pyrrolidinyl]carbonyl]-1-[2-(2-naphthalenyl)ethyl]-, (3S)- (9CI) (CA INDEX NAME)
                                                                                                                                                                                                                                                                                                     Absolute stereochemistry.
TĢ
                                                                                                                                               US 2005-36282
US 2005-40838
US 2005-99814
US 2001-311404P
                 US 2005130988
                                                                                                         20050616
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20050405
20010810
                 US 2005124636
US 2005176728
                                                                                                         20050609
20050811
 PRIORITY APPLN. INFO.:
                                                                                                                                                WO 2002-US25574
                                                                                                                                                                                                                A2 20020812
                                                                                                                                                US 2003-474497P
                                                                                                                                                                                                                P 20030530
                                                                                                                                                US 2003-467442P
                                                                                                                                                                                                                P 20030501
                                                                                                                                                US 2004-536606P
                                                                                                                                                                                                                P 20040114
 L4 ANSWER 8 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 2003:221465 HCAPLUS DOCUMENT NUMBER: 138:255249
                                                                                                                                                                                                                                                                                                                   ANSWER 8 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (Continued)
                                                                                  Preparation of piperazine and homopiperazine
                                                                                   useful in the treatment of thrombosis and to inhibit
                                                                                  useful in the treatment of thrombosis and to infinite ADP-mediated platelet aggregation Levy, Daniel E.; Smyth, Mark S.; Scarborough, Robert M.
  INVENTOR (S):
                                                                                 M.
Millennium Pharmaceuticals, Inc., USA
PCT Int. Appl., 260 pp.
CODEN: PIXXD2
Patent
English
1
 PATENT ASSIGNEE(S):
SOURCE:
  DOCUMENT TYPE:
 FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                 PATENT NO.
                                                                                   KIND
                                                                                                      DATE
                                                                                                                                               APPLICATION NO.
                                                                                                                                                                                                                          DATE
| WO 2003022214 A2 20030320 W0 2002-US28618 20020906 |
| WO 2003022214 A3 20040325 |
| WI: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, NM, NM, NX, MZ, NO, NZ, CM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
| RW: GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TH, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, FT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NR, SN, TD, TG
| US 2003153555 | A1 20030814 | US 2001-317192P | P 20010906
                                                                                                                                                                                                                                                                                                                    CM
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                                                                                                                                                                                                                                                                                                                                   76-05-1
C2 H F3 O2
                                                                                                                                                                                                                                                                                                                     CO2H
 OTHER SOURCE(S): MARPAT 138:255249
IT 502647-80-5P 502647-82-7P 502648-62-6P 502648-64-8P
                                                                                                                                                                                                                                                                                                                     502647-82-7 HCAPLUS
SO2648-64-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of piperazine and homopiperazine compds. useful in
treatment of
treombosis and to inhibit ADP-mediated platelet aggregation)
RN 502647-80-5 HCAPLUS
N 1-Pyrolidinecarboxylic acid,
3-[(4-(6-ethylthieno[2,3-d]pyrimidin-4-yl)-1-
piperazinyl]carbonyl)-4-phenyl-, l,1-dimethylethyl ester, (3R,4S)-rel-,
trifluoroacetate (9CI) (CA INDEX NAME)
                                                                                                                                                                                                                                                                                                     ON Piperazine,
1-(6-ethylthieno[2,3-d]pyrimidin-4-yl)-4-[[(3R,4S)-4-phenyl-3-pyrrolidinyl]carbonyl]-, rel-, trifluoroacetate (9CI) (CA INDEX NAME)
                                                                                                                                                                                                                                                                                                                     CM
                                                                                                                                                                                                                                                                                                                     CRN 502647-81-6
CMF C23 H27 N5 O S
                                                                                                                                                                                                                                                                                                    Relative stereochemistry.
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L4 ANSWER 8 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CM 2

CRN 76-05-1 CMF C2 H F3 O2

502648-62-6 HCAPLUS
Piperazine, 1-(6-ethylthieno[2,3-d]pyrimidin-4-yl)-4-[[(3R,4R)-2-oxo-4-phenyl-3-pyrrolidinyl]carbonyl]-, rel-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 502648-61-5 CMF C23 H25 N5 O2 S

Relative stereochemistry.

L4 ANSWER 8 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CM 2

CRN 76-05-1 CMF C2 H F3 O2

502648-64-8 HCAPLUS
Piperazine, 1-[6-ethylthieno[2,3-d]pyrimidin-4-yl]-4-[{(3R,4S}-2-oxo-4-phenyl-3-pyrrolidinyl]carbonyl]-, rel-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 502648-63-7 CMF C23 H25 N5 O2 S

Relative stereochemistry.

ANSWER 8 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CM 2

CRN 76-05-1 CMF C2 H F3 O2

L4 ANSWER 9 OF 17
ACCESSION NUMBER:
DOCUMENT NUMBER:
1578:152411 HCAPLUS
88:152411 HCAPLUS
171LE:
Heterocyclic amide derivatives
Yuki, Hiroshi; Setoquchi, Nobuo
Yoshitomi Pharmaceutical Industries, Ltd., Japan
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
PALLY ACC. NUM. COUNT:
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 52156859 PRIORITY APPLN. INFO.: A2 19771227

62836-29-7P 62836-31-1P 62836-36-6P 62936-40-2P 62836-44-6P 62836-45-7P 66157-97-9P 65158-01-8P 66158-02-9P 66158-09-6P 66178-96-9P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of) 62836-29-7 RCAPUS Piperazine, C1-([1-methyl-2-oxo-4,4-diphenyl-3-pyrrolidinyl)carbonyl}-4-(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

• HC1

62836-31-1 HCAPLUS
Piperazine, 1-methyl-4-[(2-oxo-4-phenyl-3-pyrrolidinyl)carbonyl]-,
monohydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

• HCl

RN 62836-36-6 HCAPLUS
CN Piperazine,
1-[[2-ox-4-{2, 3, 4-trimethoxyphenyl]-3-pyrrolidinyl]carbonyl]4-(phenylmethyl)- (9CI) (CA INDEX NAME)

62836-40-2 HCAPLUS
1-Piperazinecarboxylic acid, 4-[(4-(4-chlorophenyl)-2-oxo-3-pyrrolidinyl]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

66157-97-9 HCAPLUS
Piperazine, l-[(1-methyl-2-oxo-4,4-diphenyl-3-pyrrolidinyl)carbonyl]-,
monohydrochloride (9CI) (CA INDEX NAME)

66158-01-8 HCAPLUS
Piperazine, 1-{{4-(4-methoxyphenyl)-2-oxo-3-pyrrolidinyl}carbonyl}-4-(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 62836-44-6 HCAPLUS
CN Piperarine,
1-{(1-methyl-2-oxo-4,4-diphenyl-3-pyrrolidinyl)carbonyl}-4-(2-methylphenyl)- (9CI) (CA INDEX NAME)

62836-45-7 HCAPLUS
Piperazine, 1-(3-chlorophenyl)-4-((1-methyl-2-oxo-4,4-diphenyl-3-pyrrolidinyl)carbonyl)-(9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

● HC1

66158-02-9 HCAPLUS
Piperazine, 1-[{4-(3,4-dimethoxyphenyl)-2-oxo-3-pyrrolidinyl]carbonyl]-4(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

● HCl

66158-09-6 HCAPLUS
Piperazine, 1-[(1-methyl-2-oxo-4,4-diphenyl-3-pyrrolidinyl)carbonyl]-4-phenyl- 9011 (CA INDEX NAME)

L4 ANSWER 9 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

●2 HC1

L4 ANSWER 10 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 62836-36-6 HCAPLUS CN Piperazine, 1-[[2-oxo-4-(2,3,4-trimethoxyphenyl)-3-pyrrolidinyl]carbonyl}-4-(phenylmethyl)- (9CI) (CA INDEX NAME)

62836-40-2 HCAPLUS
1-Piperazinecarboxylic acid, 4-[[4-(4-chlorophenyl)-2-oxo-3-pyrrolidinyl]carbonyl)-, ethyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1977:406018 HCAPLUS
DOCUMENT NUMBER: 37:6018 Andes
INVENTOR(S): YALL, Hiroshi; Setoguchi, Shinro
PATENT ASSIGNEE(S): Yoshitomi Pharmaceutical Industries, Ltd., Japan
DOCUMENT TYPE: Patent
LANGUAGE: PAHLLY ACC. NUM. COUNT: 1
PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE JP 51131870 PRIORITY APPLN. INFO.: A2 19761116 JP 1975-9020 JP 1975-9020 19750120

62836-29-7P 62836-31-1P 62836-36-6P 62836-40-2P 62836-44-6P 62836-45-7P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of) 62836-29-7 HCAPLUS Piperazine, 1-[(1-methyl-2-oxo-4,4-diphenyl-3-pyrrolidinyl)carbonyl]-4-(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

62836-31-1 HCAPLUS
Piperazine, 1-methyl-4-[(2-oxo-4-phenyl-3-pyrrolidinyl)carbonyl]-,
monohydrochloride (9CI) (CA INDEX NAME)

ANSWER 10 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

RN 62836-44-6 HCAPLUS CN Piperarine, 1-[(1-methyl)-2-cxo-4,4-diphenyl-3-pyrrolidinyl)carbonyl]-4-(2-methylphenyl)- (9CI) (CA INDEX NAME)

62836-45-7 HCAPLUS
Piperazine, 1-(3-chlorophenyl)-4-[(1-methyl-2-oxo-4,4-diphenyl-3-pyrrolidinyl)carbonyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L4 ANSWER 11 OF 17 HCAPLUS COPYRIGHT 2006 ACS ON STN ACCESSION NUMBER: 1967:500020 HCAPLUS DOCUMENT NUMBER: 67:100020

DOCUMENT NUMBER: TITLE: INVENTOR(S):

67:100020
Octahydro-3-oxoindolizinecarboxylates
Mohrbacher, Richard J.
McNeil Laboratories, Inc.
U.S., 6 pp.
CODEN: USXXAM
Patent
English
1 PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. APPLICATION NO. KIND DATE DATE US 3297704 19670110 US 1965-46899
IT 3409-15-2P 6072-42-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 3409-15-2 HCAPLUS
CN 1-Piperazineethanol,
4-[(octahydro-3-oxo-1-phenyl-2-indolizinyl)carbonyl](7CI, 8CI) (CA INDEX NAME) US 1965-468994 19630802

6072-42-0 HCAPLUS

RN 80/2-42-0 near-200 CN Piperazine, 1-[(octahydro-3-oxo-1-phenyl-2-indolizinyl)carbonyl]-4-phenyl-(7CI, 8CI) (CA INDEX NAME)

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L4 ANSWER 12 OF 17
ACCESSION NUMBER:
DOCUMENT NUMBER:
1171LE:
1NVENTOR(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INSPRAMENT:
1967:37950 HCAPLUS
66:37950
Indelizine derivatives
Mohrbacher, Richard J.
MCNeil Laboratories, Inc.
U.S., 6 pp. Division of U.S. 3245990
CODEN: USXXAM
Patent INFORMATION:
English
TAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. STATE STATE OF THE PATENT NO. STATE OF TH DATE US 1965-463926 19650614

RN 6072-42-0 HCAPLUS CN Piperazine, 1-{(octahydro-3-oxo-1-phenyl-2-indolizinyl)carbonyl}-4-phenyl-(7CI, 8CI) (CA INDEX NAME)

L4 ANSWER 13 OF 17
ACCESSION NUMBER:
DOCUMENT NUMBER:
1567:2475 HCAPLUS
OCCEMPATOR - OCCEMPAGE - OCCEM

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

APPLICATION NO. US 1963-269879 19630402

RN 6072-42-0 HCAPLUS CN Piperazine, 1-[(octahydro-3-oxo-1-phenyl-2-indolizinyl)carbonyl]-4-phenyl-(7C1, 8C1) (CA INDEX NAME)

L4 ANSWER 14 OF 17
ACCESSION NUMBER:
DOCUMENT NUMBER:
ORIGINAL REFERENCE NO:
TITLE:
OCTANGROS:
ANOTHER OF THE NUMBER OF THE NUMB

PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: 6 pp.

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 3268540 PRIORITY APPLN. INFO.: 19660823 US 1965-463909 US 19650614 19650614

IT 3409-15-2, 1-Piperazineethanol, 4-[(octahydro-3-oxo-1-phenyl-2-indolizinyl)carbonyl]- 6072-42-0, Piperazine, 1-[(octahydro-3-oxo-1-phenyl-2-indolizinyl)carbonyl]-4-phenyl-(preparation of)
RN 3409-15-2 RCAPLUS
CN 1-Piperazineethanol, 4-[(octahydro-3-oxo-1-phenyl-2-indolizinyl)carbonyl][7CI, 8CI] (CA INDEX NAME)

RN 6072-42-0 HCAPLUS CN Plperazine, 1-{(octahydro-3-oxo-1-phenyl-2-indolizinyl)carbonyl}-4-phenyl-(7CI, 8CI) (CA INDEX NAME)

L4 ANSWER 16 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1966: 93375 HCAPLUS DOCUMENT NUMBER: 64:93375 ORIGINAL REFERENCE NO.: 64:17557b-h,17558a-c Octahydroindolizines
Mohrbacher, Richard J.
McNeil Laboratories, Inc.
6 pp.
Patent

TITLE:
INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:

English 1 FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

US US PATENT NO. KIND DATE DATE US 3245991 PRIORITY APPLN. INFO.: 19660412

5501-77-9, 1-Piperazinemethanol, u-methyl-4-[(octahydro-3-oxo-1-phenyl-2-indolizinyl)carbonyl]- 6072-42-0, Piperazine, 1-[(octahydro-3-oxo-1-phenyl-2-indolizinyl)carbonyl]-4-phenyl-(preparation of)
5501-77-9 KCAPLUS

John Francisco (Control of the Control of the Cont

6072-42-0 HCAPLUS

RN 6072-42-0 HCAPLUS
CN Piperazine,
1-{(octahydro-3-oxo-1-phenyl-2-indolizinyl)carbonyl}-4-phenyl(7CI, 8CI) (CA INDEX NAME)

L4 ANSWER 15 OF 17 HCAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 1966:104086 HCAPLUS
DOCUMENT NUMBER: 64:104086
ORIGINAL REFERENCE NO: 64:19563e-h
TITLE: 2-(Pyrrolidino and morpholino)carbonyl-3oxocchaydroindolizines
INVENTOR(S): Mohrbacher, Richard J.
HCNEII Laboratories, Inc.
SOURCE: 6p.
DOCUMENT TYPE: 6p.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILIF ACC. NUM. COUNT: 1
PATENT INFORMATION:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. 19650614 19650614 US 3245990 PRIORITY APPLN. INFO.: 19660412 US 1965-463863 US

IT 3409-15-2, 1-Piperazineethanol, 4-[(octahydro-3-oxo-1-phenyl-2-indolizinyl)carbonyl]- 6072-42-0, Piperazine, 1-[(octahydro-3-oxo-1-phenyl-2-indolizinyl)carbonyl]-4-phenyl-(preparation of)
RN 3409-15-2 HCAPLUS
CN 1-Piperazineethanol, 4-[(octahydro-3-oxo-1-phenyl-2-indolizinyl)carbonyl](7CI, SCI) (CA INDEX NAME)

RN 6072-42-0 HCAPLUS CN Piperazine, 1-{(octahydro-3-oxo-1-phenyl-2-indolizinyl}carbonyl}-4-phenyl-(7CI, 8CI) (CA INDEX NAME)

L4 ANSWER 17 OF 17
ACCESSION NUMBER: 1965:462961 HCAPLUS
DOCUMENT NUMBER: 63:62961
OXFIGINAL REFERENCE NO: 63:11513b-h, 11514a-d
OXFIGINAL REFERENCE NO: 63:01513b-h, 11514a-d
OXFIGURAL REFERENCE NO: 63:01513b-h, 11514a-d
OXFIGURAL REFERENCE NO: 63:01513b-h, 11514a-d
OXFIGURAL REFERENCE NO: 63:01513b-h
OXFIGURAL REFERENCE NO: 5 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable

os:1111519a-0,11114a-0 Oxo- and hydroxyspiroindanindolizines Mohrbacher, Richard J. McNeil Laboratories, Inc. 5 pp. Patent

Unavailable LANGUAGE:

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 1963-269887 US US 3189611 PRIORITY APPLN. INFO.: 19630402 19630402 19650615

IT 3409-15-2, 1-Piperazineethanol, 4-[(octahydro-3-oxo-1-phenyl-2-indolizinyl)carbonyl)- (preparation of)
RN 3409-15-2 KCAPLUS
CN 1-Piperazineethanol,
4-[(octahydro-3-oxo-1-phenyl-2-indolizinyl)carbonyl](7CI, 8CI) (CA INDEX NAME)

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

SINCE FILE TOTAL ENTRY SESSION 65.58 232.73 COST IN U.S. DOLLARS

FULL ESTIMATED COST

STN INTERNATIONAL LOGOFF AT 14:01:20 ON 10 MAR 2006